

## Weekly Report

March 22, 2011

The purpose of this report is to inform Public Health staff, primary care providers, acute care staff and other community practitioners about recent respiratory virus activity in the province of Alberta. Unless otherwise noted, all data presented are current as of the Saturday prior to the day the report is released.

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### What's New?

- Global information on influenza circulation remains unchanged since the last update provided. The season appears to be peaking or declining in most areas of the northern hemisphere, while activity remains low in North Africa, the Middle East, Australia and parts of Asia.
- In the United States, most indicators of influenza flu activity have declined for the second week in a row. One exception is with respect to the number of deaths attributed to pneumonia and influenza, which is still at or above the epidemic threshold. Of the viruses antigenically characterized in the US this season, 20.0% have been identified as influenza A (H1N1) 2009, 46.0% as influenza A (H3N2), 31.9% as influenza B (Victoria lineage) and 2.1% as influenza B (Yamagata lineage).
- In many parts of Canada, the number of influenza outbreaks reported, the proportion of positive influenza detections, adult and paediatric hospitalizations for patients with influenza and the influenza-like-illness (ILI) consultation rate have all recently declined. Influenza B has been gradually increasing since January, 2011 and now accounts for 28% of all influenza positive specimens. Of note, RSV activity has been decreasing across Canada since mid-February, 2011.
- RSV activity continues to decline across Alberta. A number of indicators suggest that overall respiratory virus activity is declining, however, influenza cases (particularly influenza B cases) continue to be confirmed by the Provincial laboratory at a relatively steady rate. As of the end of last week (Mar 19, 2011), the total number of influenza cases confirmed in the province this season is 993, of which 44.1% have been identified as influenza A (H3), 19.7% as influenza A (H1N1) 2009, 33.9% as influenza type B, and 2.2% influenza A with unresolved sub-typing.
- Since the last update, there have been four outbreaks confirmed in Alberta. Two occurred in North Zone schools and were attributed to influenza B. The attack rates for these were 10% and 11%. The other two outbreaks occurred in a Calgary Zone school and a Central Zone school.

If you have questions about the Alberta Respiratory Virus Surveillance Update, or any of the indicators, please contact: [AHSPublicHealthSurveillance@albertahealthservices.ca](mailto:AHSPublicHealthSurveillance@albertahealthservices.ca) Or phone: 780-342-0210

## Alberta Snapshot

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Indicators			Cumulative Counts					Alberta
			Week 35 (starting Aug 29/10) to Week 11 (starting Mar 13/11)					
			South	Calgary	Central	Edmonton	North	
Laboratory Confirmed Cases	Number of cases with a positive respiratory specimen <sup>1</sup>	Adenovirus	4	38	9	74	17	142
		Coronavirus	11	62	31	102	38	244
		Human metapneumovirus (hMPV)	9	5	0	14	6	34
		Influenza A	34	180	86	228	128	656
		Influenza B	34	129	26	101	47	337
		Parainfluenza	30	89	53	175	95	442
		Respiratory syncytial virus (RSV)	114	435	192	713	282	1,736
		Rhino enterovirus	100	427	164	602	294	1,587
		Mixed	35	138	53	153	90	469
		Total	371	1,503	614	2,162	997	5,648
Outbreaks	# laboratory confirmed respiratory outbreaks <sup>2</sup>	0	21	8	31	4	64	
Influenza Immunizations	Total number of clients who have received 1 dose administered by AHS Public Health <sup>3</sup> (cumulative since Oct 3, 2010)	43,221	192,259	61,708	161,817	62,847	521,852	
	The reported number of people who have received 1 dose administered by external providers (Oct 3-Dec 31, 2010) <sup>4</sup>	17,639	120,408	17,789	62,481	5,075	223,392	

-- Information not available

\*Note: 36 specimens were positive for influenza A or B and one or more other virus type(s). These cases have been included in the influenza counts, as well as the other respective specimen type(s). They have not been included in the 'Mixed' category. One specimen was positive for both influenza A & B.

<sup>1</sup> Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011).

<sup>2</sup> Source: Alberta Health and Wellness Outbreak Reporting Form (Fillable PDF) from All Zones

<sup>3</sup> Source: AHS Zones (number does not include doses provided by external providers); includes first doses only for those that require two doses

<sup>4</sup> In some cases, it was not possible to separate dose 1's from dose 2's.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

## SECTION 1: ALBERTA

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### Summary

RSV activity continues to decline. A number of indicators suggest that respiratory virus activity is declining, however, influenza cases continue to be confirmed by the Provincial laboratory at a relatively steady rate.

### Laboratory Data (see [Figure 1A](#), [Figure 1B](#) & [Figure 1C](#), [Table 1A](#) & [Table 1B](#))

In Alberta, RSV activity continues to decline. Laboratory data suggests steady influenza activity in recent weeks, with the proportion of influenza B cases among all influenza cases continuing to increase. Nearly ¼ of the influenza cases confirmed last week (Mar 13-19, 2011) were identified as influenza B. As of the end of last week (Mar 19, 2011), the total number of confirmed cases of influenza in the province this season is 993 (44.1% influenza A (H3), 19.7% influenza A (H1N1) 2009, 33.9% influenza type B, and 2.2% influenza A with unresolved sub-typing). At this point in the season, the age specific rate for confirmed influenza cases (all types) in infants 0 to <2 years of age is higher than the rate in other age groups, at 14.6 per 10,000 compared to 6.0 per 10,000 or lower for all other age groups.

### Outbreaks (see [Figure 1D](#))

Since the last update, there have been four outbreaks confirmed in Alberta, including two in North Zone schools attributed to influenza B. The attack rates for these were 10% and 11%. The other two outbreaks occurred in a Calgary Zone school (with a preliminary attack rate of 9%) and a Central Zone school (with a preliminary attack rate of 11%). The onset of symptoms for both of these outbreaks occurred in Week 10 (Mar 6-12, 2011).

### Health Link Alberta Calls (see [Figure 1E](#))

The number of calls to Health Link Alberta for cough or breathing difficulties by Albertans continues to decline. The decrease shown from Week 10 (Mar 5-12, 2011) to Week 11 (Mar 13-19, 2011) is the third consecutive decrease.

### Emergency Department/Urgent Care Center Visits and Hospital Admissions

The combined number of visits and hospital admissions at emergency departments/urgent care centers (ED's) for influenza-like illness (ILI) in the City of Calgary and Edmonton Zone decreased by 14% and 26%, respectively, in Week 11 (Mar 13-19, 2011) from the previous week. During that same time period, the percentage of ILI visits of all screened visits dropped from 6% to 5%. These indicators have been consistently decreasing since late February, 2011.

Similarly, the number of ED visits and hospital admissions for symptoms with cough at the same facilities decreased by 15% and 9% respectively in Week 11 from Week 10. Generally, the trend for these indicators in recent weeks has been decreasing.

### Sentinel Physician Office Visits

The combined percentage of ILI- and LRTI-related visits of all visits to sentinel physician offices in Alberta increased by 23% in Week 10 (Mar 6-12, 2011) compared to the previous week. From the middle of February to the middle of March, 2011, despite some fluctuations, this indicator has remained relatively stable.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

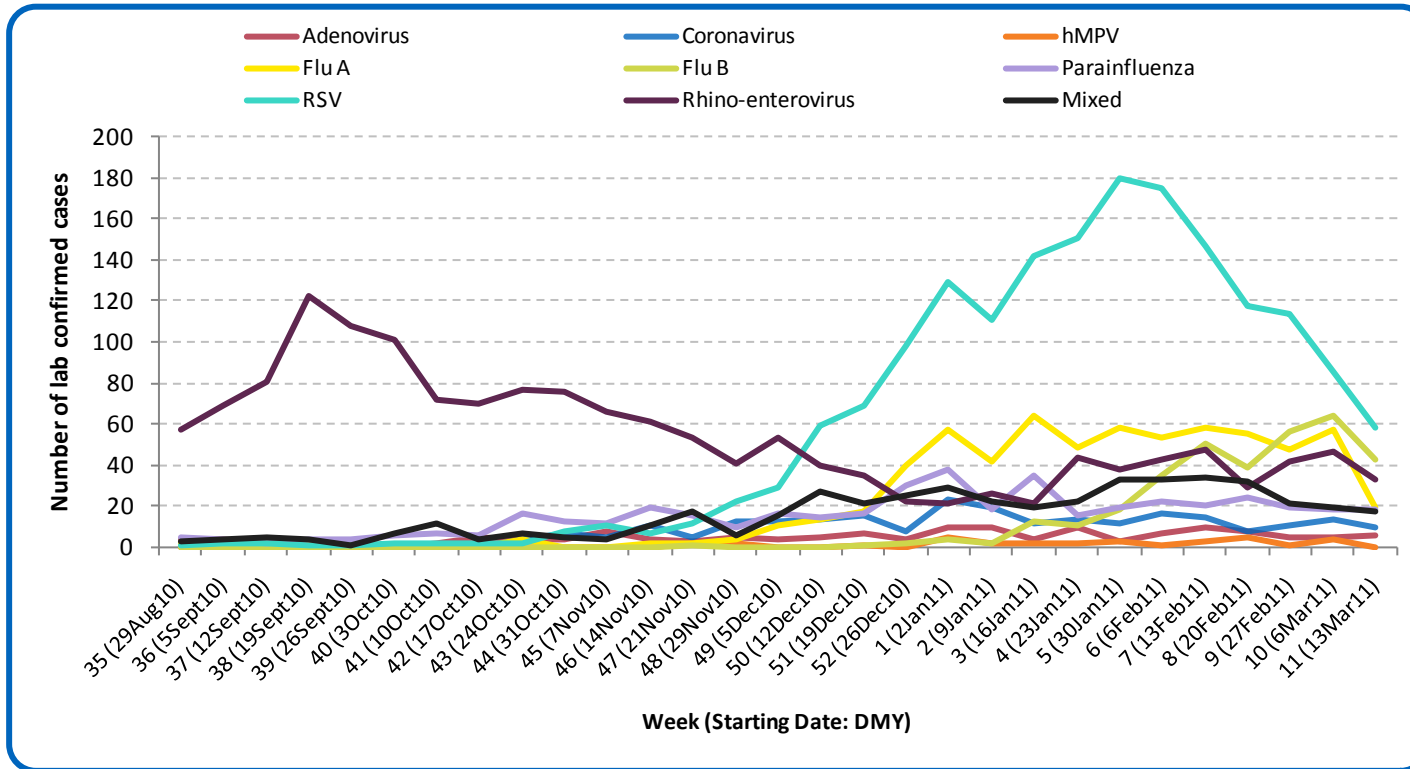
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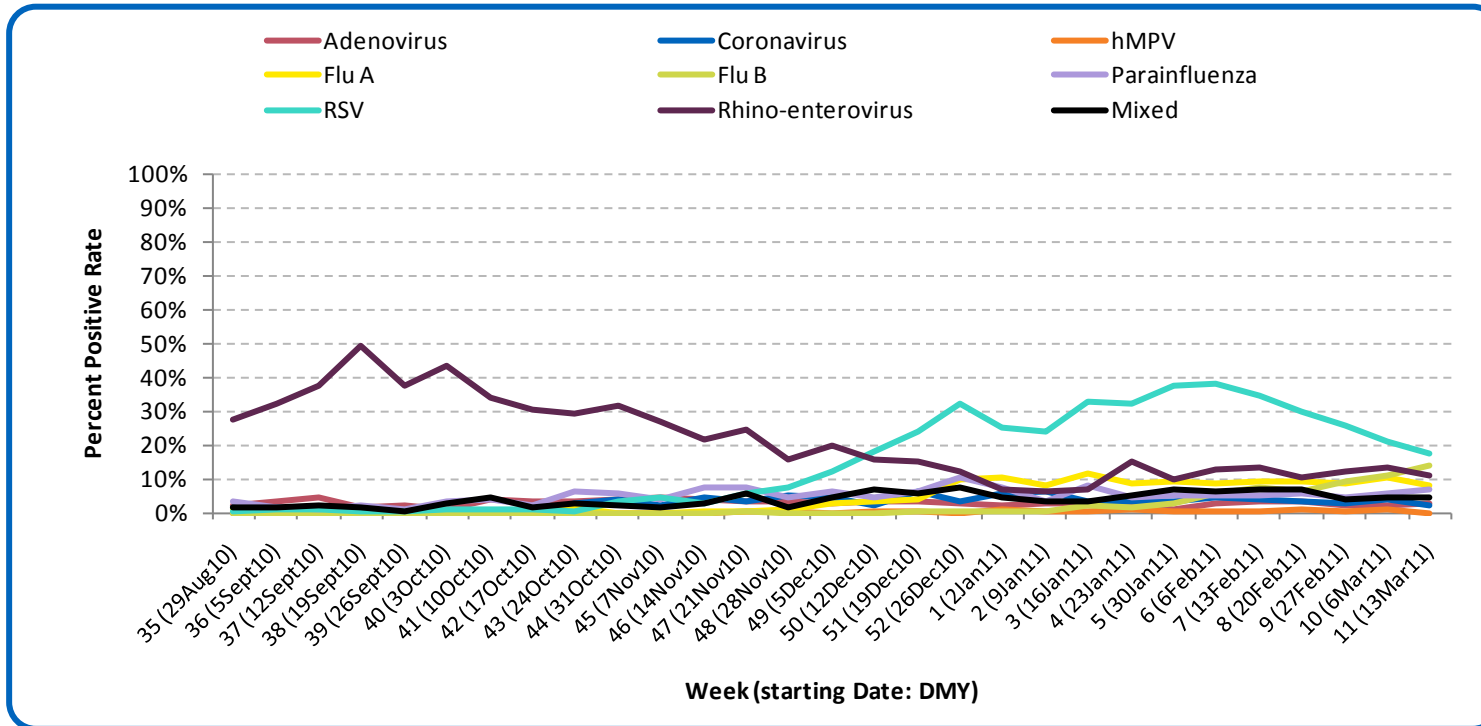
Figure 1A: Laboratory confirmed respiratory virus cases, by virus type, by week, Alberta (2010-11)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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Figure 1B: Respiratory specimen percent positive rates, by virus type, by week, Alberta (2010-11)



Sources: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Mar 19, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

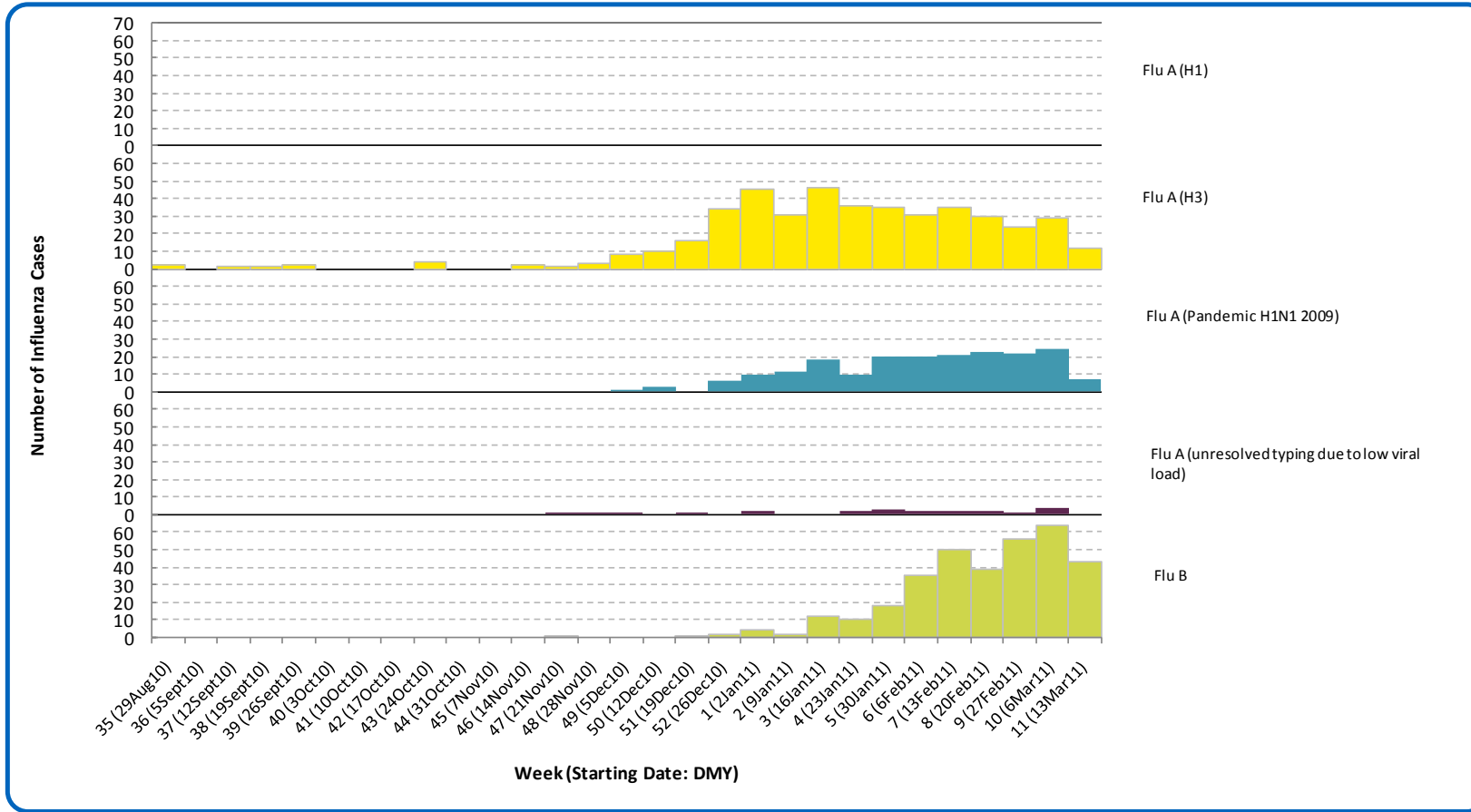
Public Health Surveillance

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Figure 1C: Laboratory confirmed influenza cases, by subtype, by week specimen received, Alberta (2010-2011)



\*Note: 36 specimens were positive for influenza A or B and one or more other virus type(s). One specimen was positive for both influenza A & B.  
 Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011).  
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**Table 1A: New influenza cases (and age specific rates), by subtype, by age group, Alberta (Week 11: Mar 13-19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	1	0.1	1	0.1	0	0.0	5	0.5	7	0.7
2 to <5 years	0	0.0	1	0.1	0	0.0	0	0.0	6	0.4	7	0.5
5 to <9 years	0	0.0	1	0.1	0	0.0	0	0.0	5	0.3	6	0.3
9 to <18 years	0	0.0	2	<0.1	0	0.0	0	0.0	17	0.4	19	0.5
18 to <65 years	0	0.0	3	<0.1	6	<0.1	0	0.0	4	0.0	13	0.1
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	2	0.1
75+ years	0	0.0	4	0.2	0	0.0	0	0.0	4	0.2	8	0.4
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>12</b>	<b>&lt;0.1</b>	<b>7</b>	<b>&lt;0.1</b>	<b>0</b>	<b>0.0</b>	<b>43</b>	<b>0.1</b>	<b>62</b>	<b>0.2</b>

**Table 1B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Alberta (Aug 29, 2010 – Mar 19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	69	6.8	25	2.5	5	0.5	49	4.8	148	14.6
2 to <5 years	0	0.0	34	2.4	15	1.1	2	0.1	33	2.4	84	6.0
5 to <9 years	0	0.0	30	1.7	9	0.5	2	0.1	53	3.0	94	5.4
9 to <18 years	0	0.0	27	0.6	14	0.3	2	<0.1	93	2.2	136	3.3
18 to <65 years	0	0.0	181	0.8	130	0.5	9	<0.1	91	0.4	411	1.7
65 to <75 years	0	0.0	18	0.9	3	0.1	0	0.0	8	0.4	29	1.4
75+ years	0	0.0	79	4.4	0	0.0	2	0.1	10	0.6	91	5.1
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>438</b>	<b>1.2</b>	<b>196</b>	<b>0.5</b>	<b>22</b>	<b>0.1</b>	<b>337</b>	<b>0.9</b>	<b>993</b>	<b>2.7</b>

Source for Table 1A & 1B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 19, 2011*).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

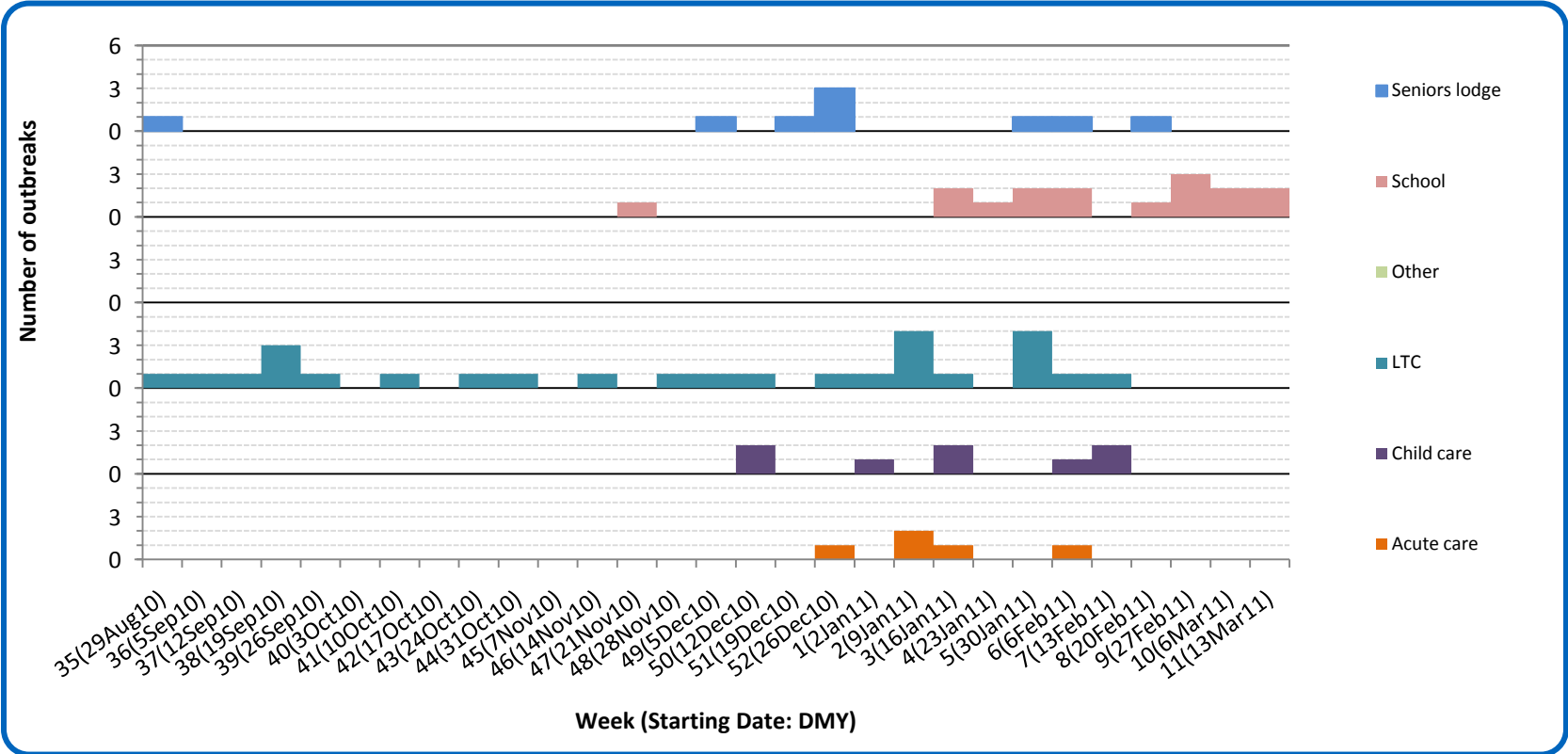
### Public Health Surveillance

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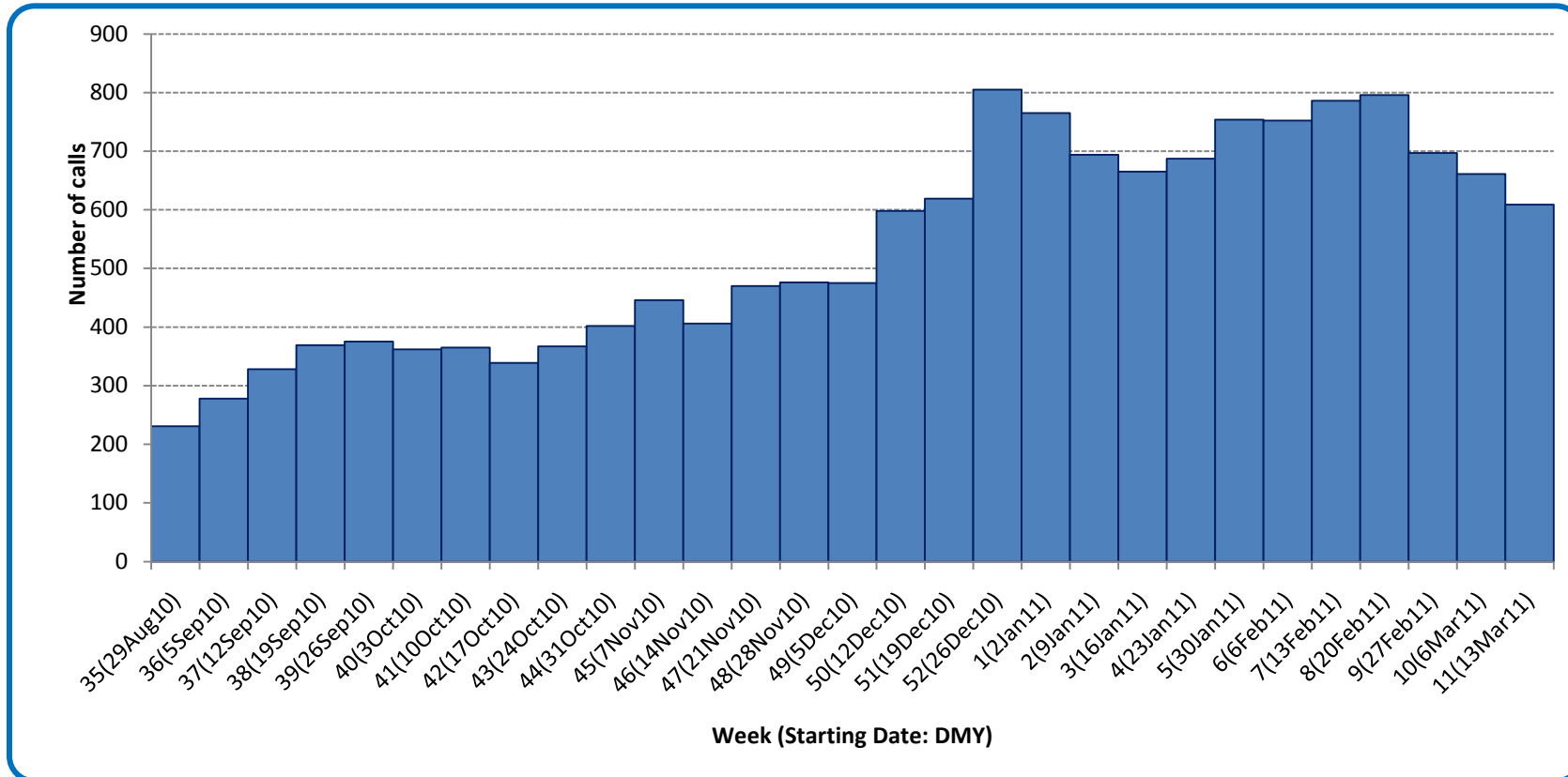
Figure 1D: Respiratory outbreaks, by facility type, by onset week, Alberta (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Mar 19, 2011. LTC stands for long term care facility. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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Figure 1E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Alberta (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 19, 2011. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

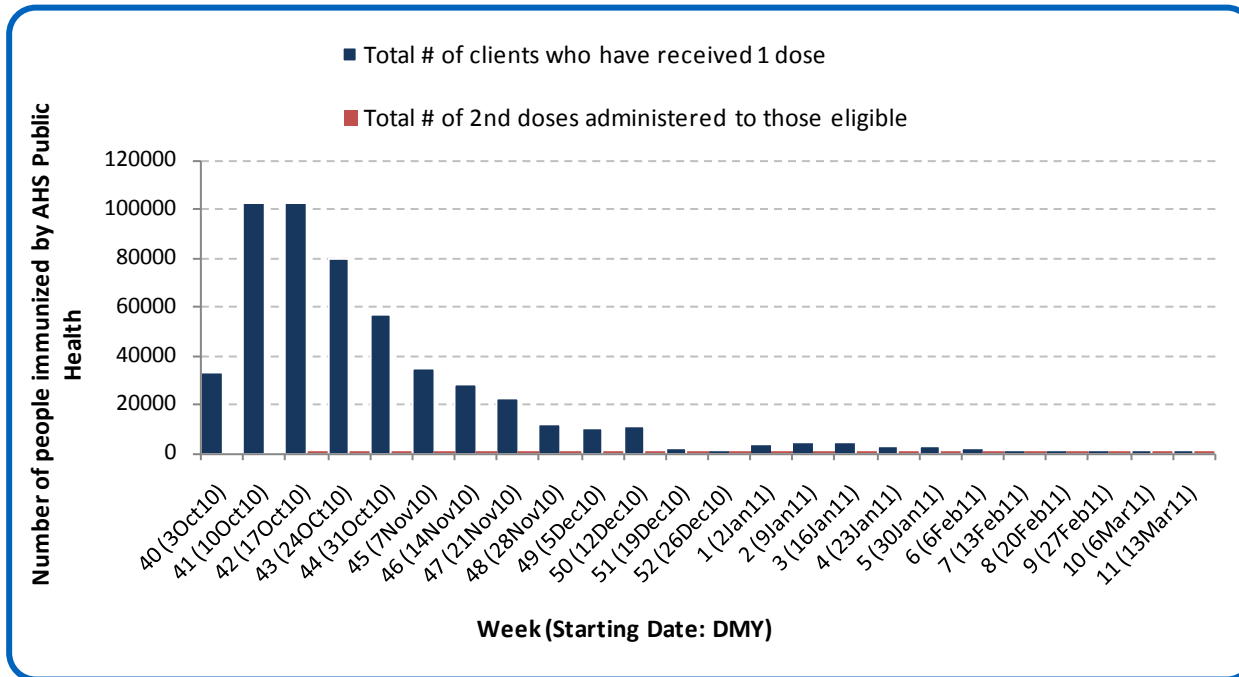
**Public Health Surveillance**

Report Date: March 22, 2011

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Figure 1F: Number immunized by AHS (Public Health), by week, Alberta (2010-11)



Source: AHS Zones (doses do not include those delivered by external providers)  
 Note: Immunization coverage rates will be reported at the end of the influenza season  
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

**Public Health Surveillance**

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 1C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Alberta (2010-11)**

Priority Group		# Immunized (Week 11 – Mar13-19, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff		3	2,633
Health care workers		21	19,029
Pregnant women		12	4,725
Residents of long term care		1	4,840
65 years of age and over		19	146,766
All children 6 months up to and including 23 months*	Dose #1	383	26,791
	Dose #2	294	8,663
All children 24 months up to and including 59 months*	Dose #1	89	25,422
	Dose #2	21	1,485
High risk: 5 years up to and including 8 years*	Dose #1	22	5,824
	Dose #2	2	152
High risk: 9 years up to and including 64 years		44	55,979
Healthy: 5 years up to and including 8 years*	Dose #1	55	18,851
	Dose #2	14	629
Healthy: 9 years up to and including 64 years		301	210,992
<b>Total number of clients who have received 1 dose</b>		<b>950</b>	<b>521,852</b>
Total number of 2nd doses administered to those eligible*		331	10,929

Source: AHS Zones (doses do not include those delivered by external providers)

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

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**Table 1D: Influenza immunizations delivered by external partners, by priority group, Alberta (Oct 3-Dec 31, 2010)**

Priority Group	# Immunized Oct 3-Dec 31, 2010	
Long term care staff	5,668	
Health care workers	31,866	
Pregnant women	1,640	
Residents of long term care	6,951	
65 years of age and over	52,176	
All children 6 months up to and including 23 months*	Dose #1	965
	Dose #2**	48
All children 24 months up to and including 59 months*	Dose #1	1,043
	Dose #2**	27
High risk: 5 years up to and including 8 years*	Dose #1	1,685
	Dose #2**	2
High risk: 9 years up to and including 64 years	29,034	
Healthy: 5 years up to and including 8 years*	Dose #1	2,226
	Dose #2**	5
Healthy: 9 years up to and including 64 years	90,138	
<b>Total number of clients who have received 1 dose</b>	<b>223,392</b>	
Total number of 2nd doses administered to those eligible*	82	

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

\*\* In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, the dose 1 category may contain some 2<sup>nd</sup> doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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## SECTION 2: ZONE 1 - SOUTH

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### Summary

Several indicators suggest that respiratory virus activity may be decreasing in South Zone.

### Laboratory Data (see [Figure 2A](#), [Figure 2B](#), [Figure 2C](#), [Table 2A](#) & [Table 2B](#))

The number of RSV cases confirmed in South Zone continues to decrease and is now at a level consistent with other respiratory viruses. As of the end of last week (Mar 19, 2011), the total number of laboratory confirmed cases of influenza in this part of the province this season is 68. The age specific rate for confirmed influenza in South zone is highest for infants under the age of 2 years and children between the ages of 2 to less than 5 years, at 7.3 per 10,000 and 9.6 per 10,000, respectively.

### Outbreaks

There have been no respiratory outbreaks reported in South Zone this season.

### Health Link Alberta Calls (see [Figure 2D](#))

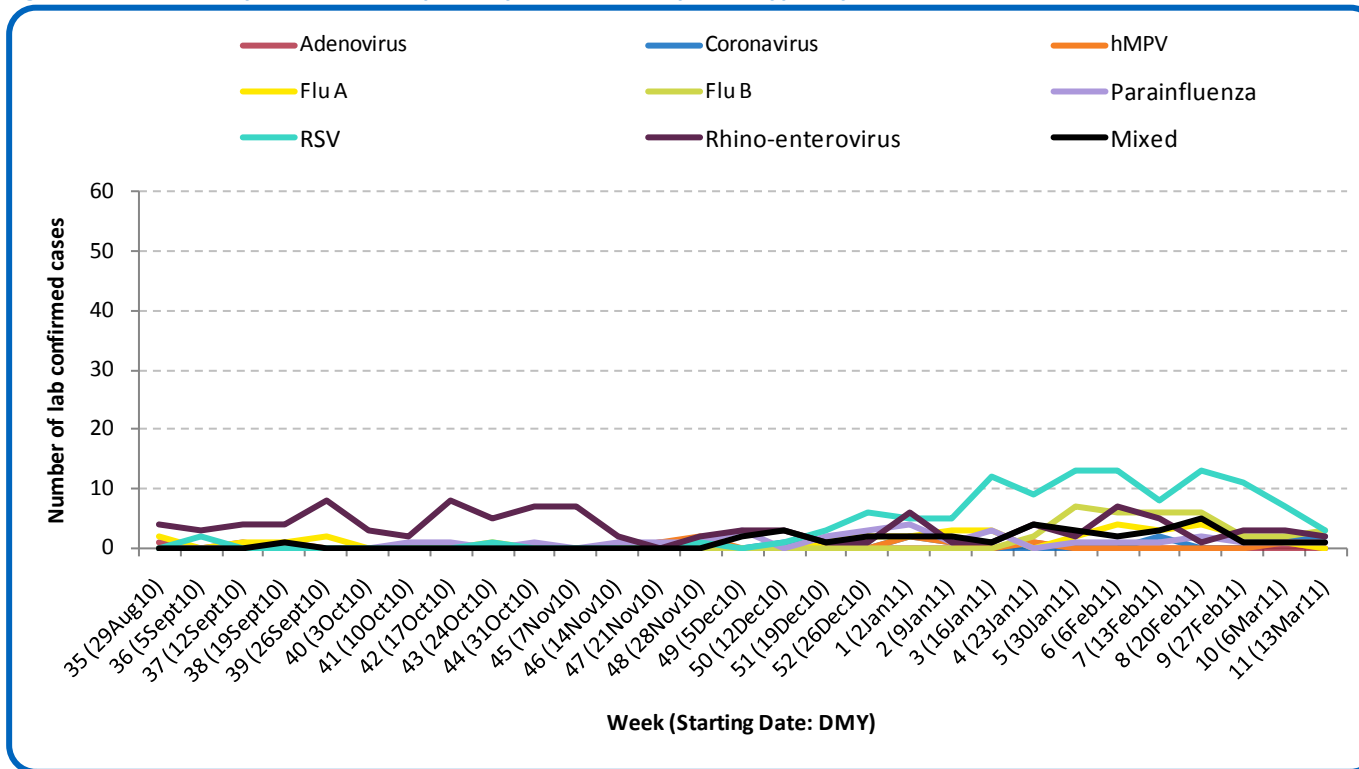
The number of calls to Health Link Alberta for cough or breathing difficulties by residents of South Zone has been consistently decreasing since the end of February, 2011.

### Emergency Department/Urgent Care Center Visits and Hospital Admissions

This information is not available for South Zone.

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Figure 2A: Laboratory confirmed respiratory virus cases, by virus type, by week, South Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 19, 2011*). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

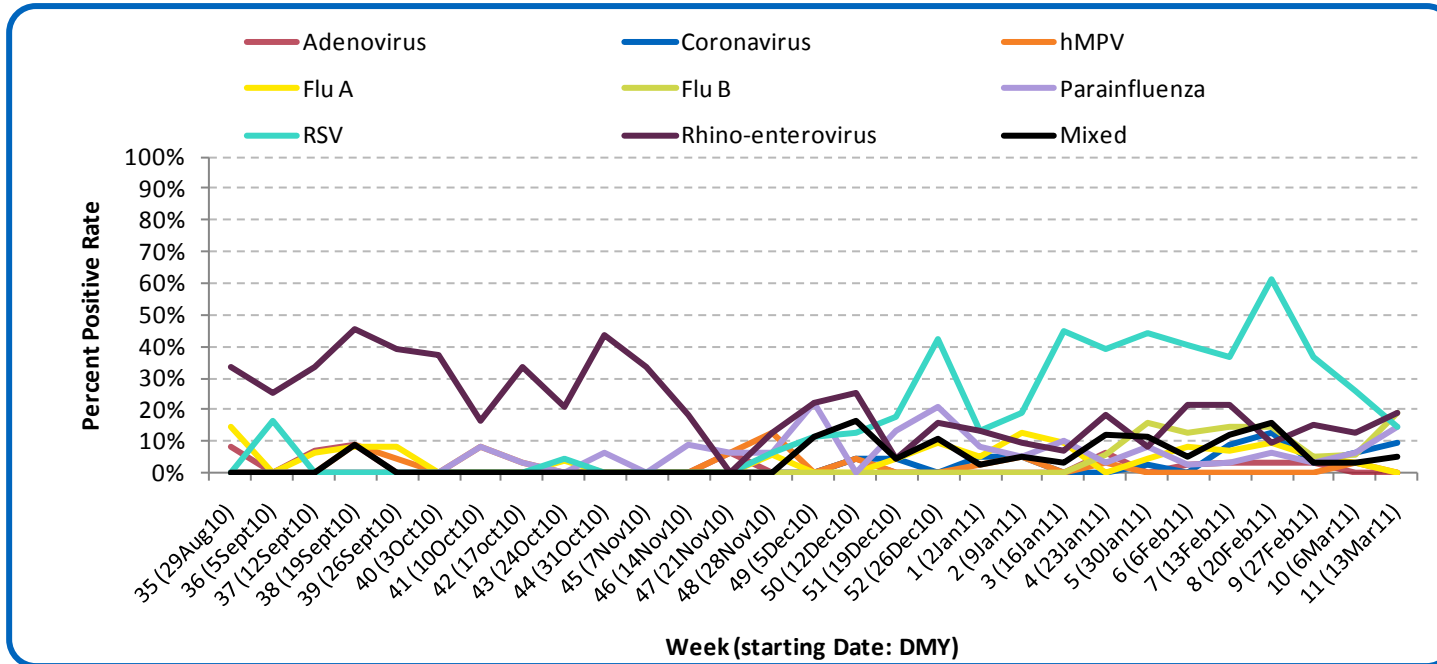
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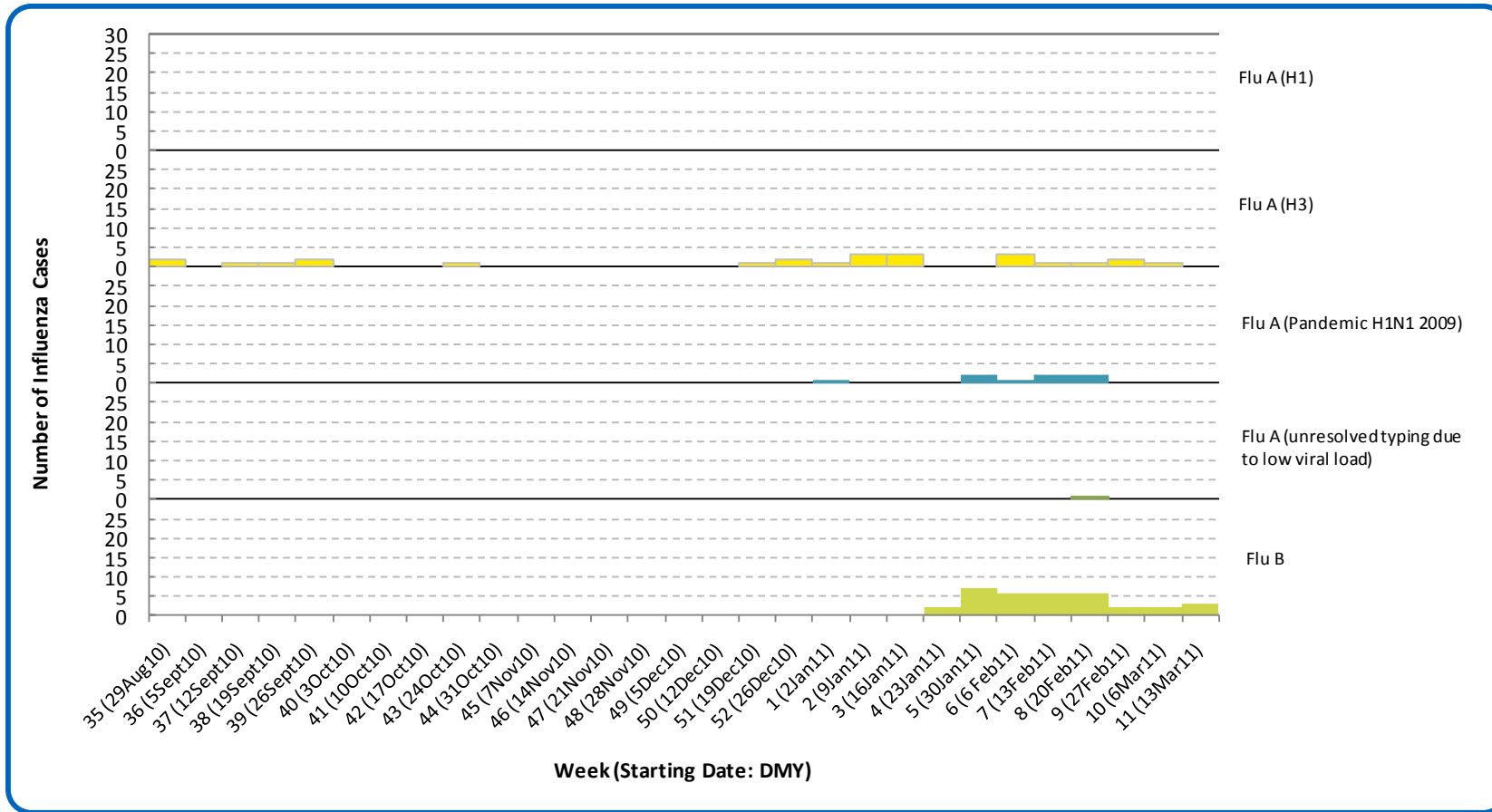
Figure 2B: Respiratory specimen percent positive rates, by virus type, by week, South Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Mar 19, 2011)  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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Figure 2C: Laboratory confirmed influenza cases, by subtype, by week specimen received, South Zone (2010-2011)



Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011).

\*Note: 5 specimens were positive for influenza A or B and one other virus type.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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**Table 2A: New influenza cases (and age specific rates), by subtype, by age group, South Zone (Week 11: Mar 13-19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.9	1	0.9
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6	2	0.6
18 to <65 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>3</b>	<b>0.1</b>	<b>3</b>	<b>0.1</b>

**Table 2B: Cumulative influenza cases (and age specific rates), by subtype, by age group, South Zone (Aug 29, 2010–Mar 19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	3	3.6	0	0.0	0	0.0	3	3.6	6	7.3
2 to <5 years	0	0.0	5	4.3	2	1.7	0	0.0	4	3.5	11	9.6
5 to <9 years	0	0.0	1	0.7	0	0.0	0	0.0	3	2.1	4	2.8
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	11	3.2	11	3.2
18 to <65 years	0	0.0	15	0.9	4	0.2	1	0.1	11	0.6	31	1.8
65 to <75 years	0	0.0	0	0.0	2	1.1	0	0.0	1	0.5	3	1.6
75+ years	0	0.0	1	0.5	0	0.0	0	0.0	1	0.5	2	1.1
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>25</b>	<b>0.9</b>	<b>8</b>	<b>0.3</b>	<b>1</b>	<b>&lt;0.1</b>	<b>34</b>	<b>1.2</b>	<b>68</b>	<b>2.4</b>

Source for Tables 2A & 2B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 19, 2011*).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

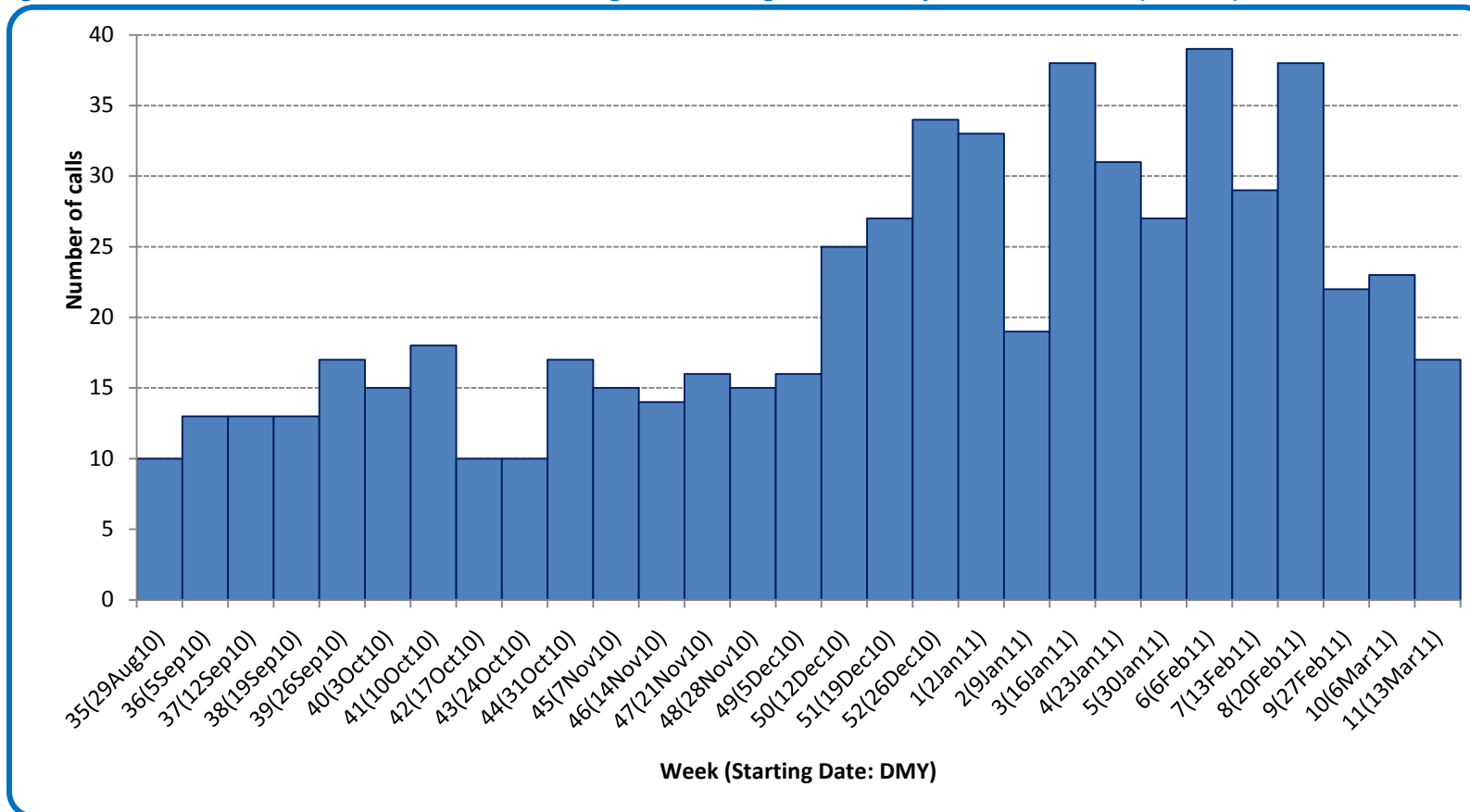
### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 2D: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, South Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 19, 2011. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

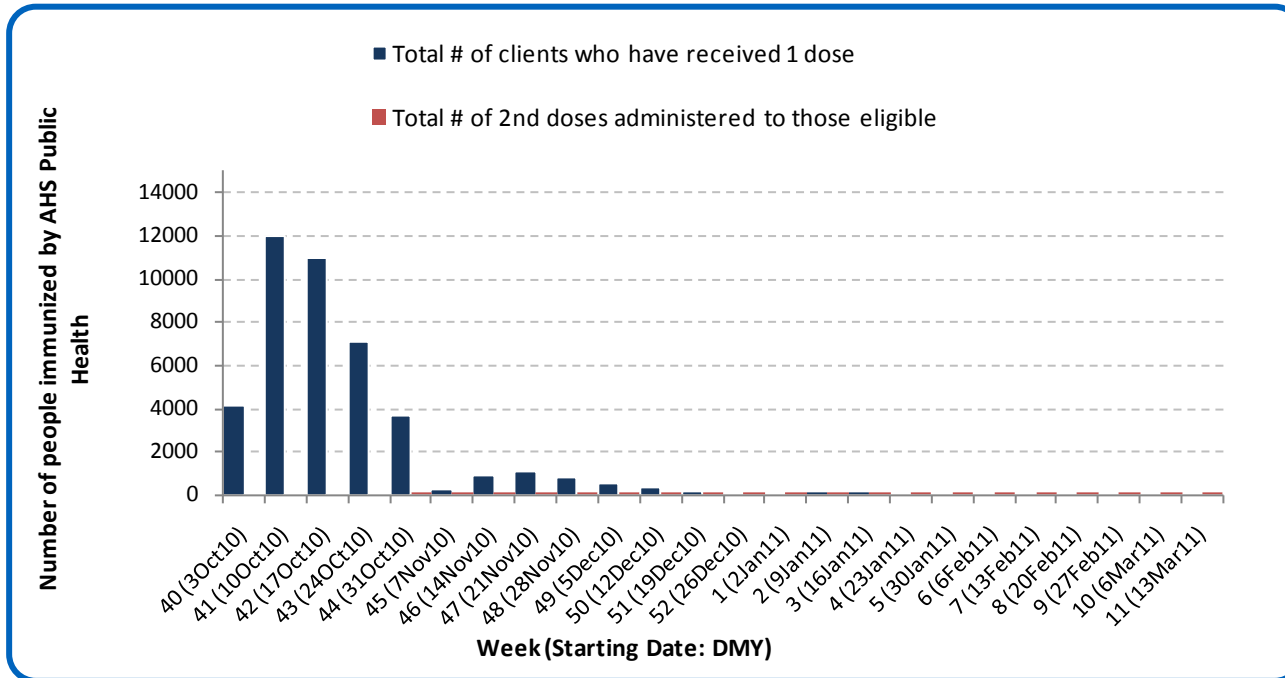
**Public Health Surveillance**

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 2E: Number immunized by AHS (Public Health), by week, South Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)  
 Note: Immunization coverage rates will be reported at the end of the influenza season  
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

**Public Health Surveillance**

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 2C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, South Zone (2010-2011)**

Priority Group	Number Immunized (Week 11 – Mar13-19, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	0	616
Health care workers	0	1,568
Pregnant women	0	302
Residents of long term care	0	730
65 years of age and over	2	15,602
All children 6 months up to and including 23 months*	Dose #1	17
	Dose #2	37
All children 24 months up to and including 59 months*	Dose #1	9
	Dose #2	4
High risk: 5 years up to and including 8 years*	Dose #1	0
	Dose #2	0
High risk: 9 years up to and including 64 years	2	4,108
Healthy: 5 years up to and including 8 years*	Dose #1	1
	Dose #2	3
Healthy: 9 years up to and including 64 years	25	14,723
<b>Total number of clients who have received 1 dose</b>	<b>56</b>	<b>43,221</b>
<b>Total number of 2nd doses administered to those eligible*</b>	<b>44</b>	<b>856</b>

Source: AHS Zones (doses do not include those delivered by external providers)

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 2D: Influenza immunizations delivered by external partners, by priority group, South Zone (Oct 3-Dec 31, 2010)**

Priority Group	# Immunized Oct 3-Dec 31, 2010	
Long term care staff	558	
Health care workers	3,288	
Pregnant women	205	
Residents of long term care	570	
65 years of age and over	4,248	
All children 6 months up to and including 23 months*	Dose #1	9
	Dose #2**	0
All children 24 months up to and including 59 months*	Dose #1	11
	Dose #2**	0
High risk: 5 years up to and including 8 years*	Dose #1	41
	Dose #2**	0
High risk: 9 years up to and including 64 years	2,188	
Healthy: 5 years up to and including 8 years*	Dose #1	14
	Dose #2**	0
Healthy: 9 years up to and including 64 years	6,507	
<b>Total number of clients who have received 1 dose</b>	<b>17,639</b>	
Total number of 2nd doses administered to those eligible*	0	

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

\*\* In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, the dose 1 category may contain some 2<sup>nd</sup> doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

## SECTION 3: ZONE 2 - CALGARY

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### Summary

RSV activity continues to decline. Several indicators of respiratory virus activity are showing decreasing trends, although influenza B activity continues at a fairly stable level.

### Laboratory Data (see [Figure 3A](#), [Figure 3B](#), [Figure 3C](#), [Table 3A](#) & [Table 3B](#))

RSV and influenza B are currently the predominant viruses being confirmed in Calgary Zone, although RSV activity has been consistently declining since the middle of February, 2011. The majority (over 3/4) of the new influenza cases confirmed last week were type B. Since the beginning of the season, a total of 309 cases of influenza have been confirmed in Calgary Zone (41.1% have been identified as influenza A (H3), 13.9% as influenza A (H1N1) 2009, 41.7% as influenza type B and 3.2% as influenza A untyped). Compared to the age specific rates in other age groups, the rate for confirmed influenza is highest among infants less than 2 years of age at 9.4 per 10,000.

### Outbreaks (see [Figure 3D](#))

Since the last report, there has been one respiratory outbreak reported in a Calgary Zone school. The onset of symptoms occurred during Week 10 (Mar 6-13, 2011) and the preliminary attack rate is 9%.

### Health Link Alberta Calls (see [Figure 3E](#))

The number of calls to Health Link Alberta for cough or breathing difficulties by residents of Calgary Zone appears to be on a decreasing trend that started at the end of February, 2011.

### Emergency Department/Urgent Care Center Visits and Hospital Admissions (See [Figure 3F](#))

The number of visits and the number of hospital admissions for influenza-like illness (ILI) at the six urban emergency departments/urgent care centers (ED's) in the City of Calgary were 13% and 45%, respectively, in Week 11 (Mar 13-19, 2011) compared to the previous week. Generally, these indicators have been decreasing consistently for the past several weeks.

The number of visits and the number of hospital admissions for patients with cough symptoms at the same ED's both remained relatively unchanged in Week 11 compared to the previous week.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

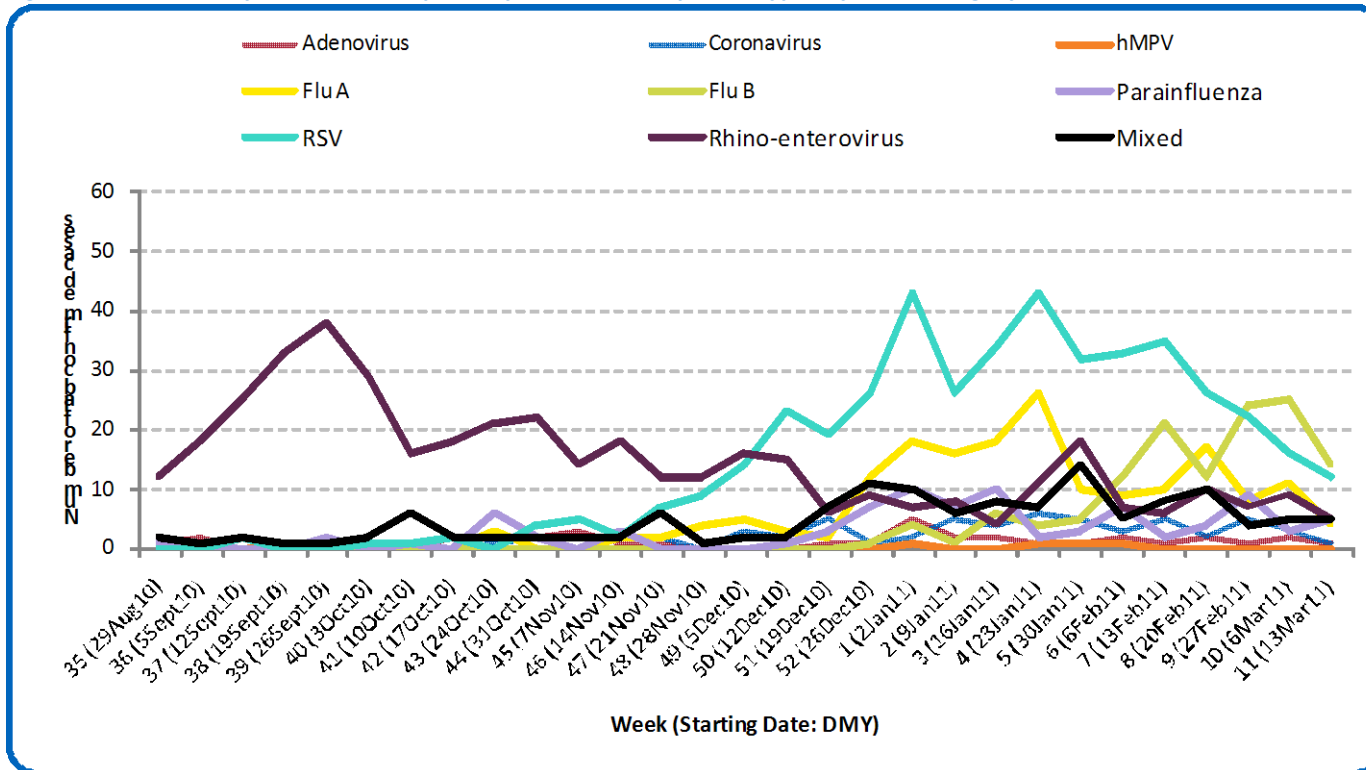
### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3A: Laboratory confirmed respiratory virus cases, by virus type, by week, Calgary Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

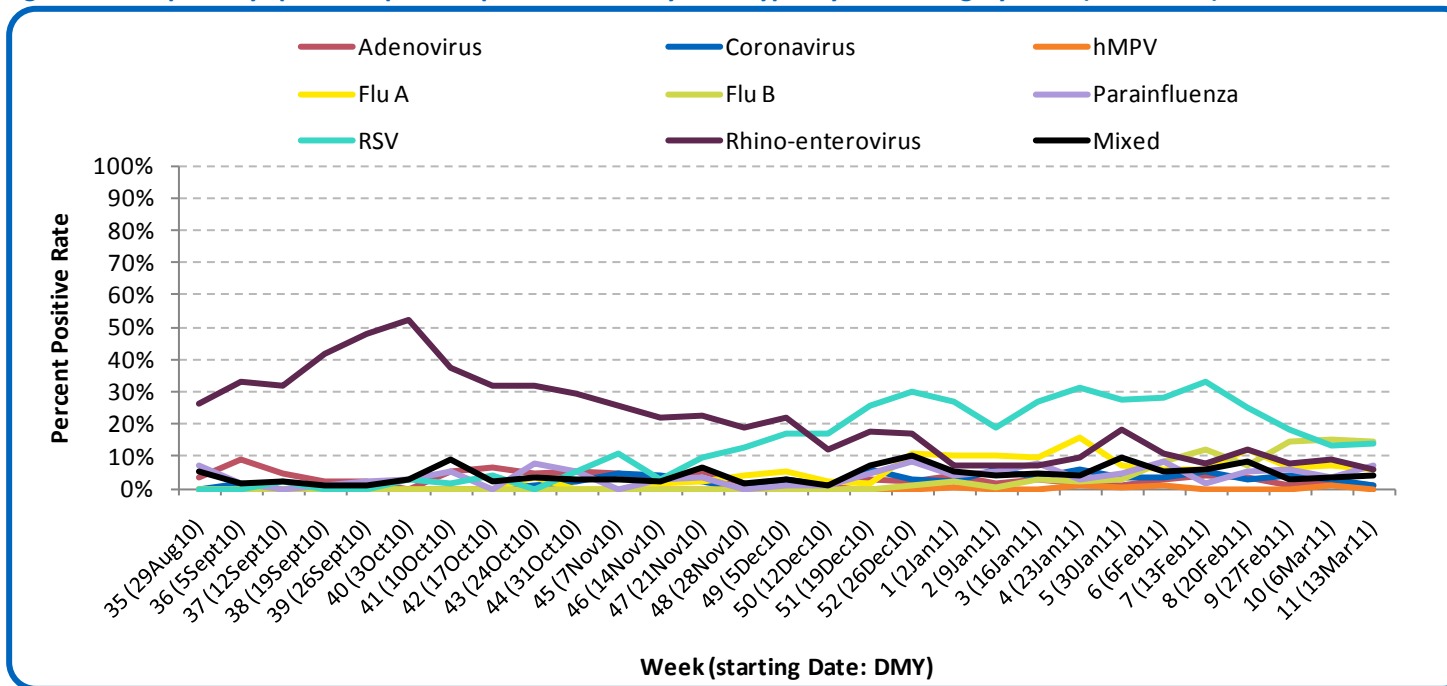
Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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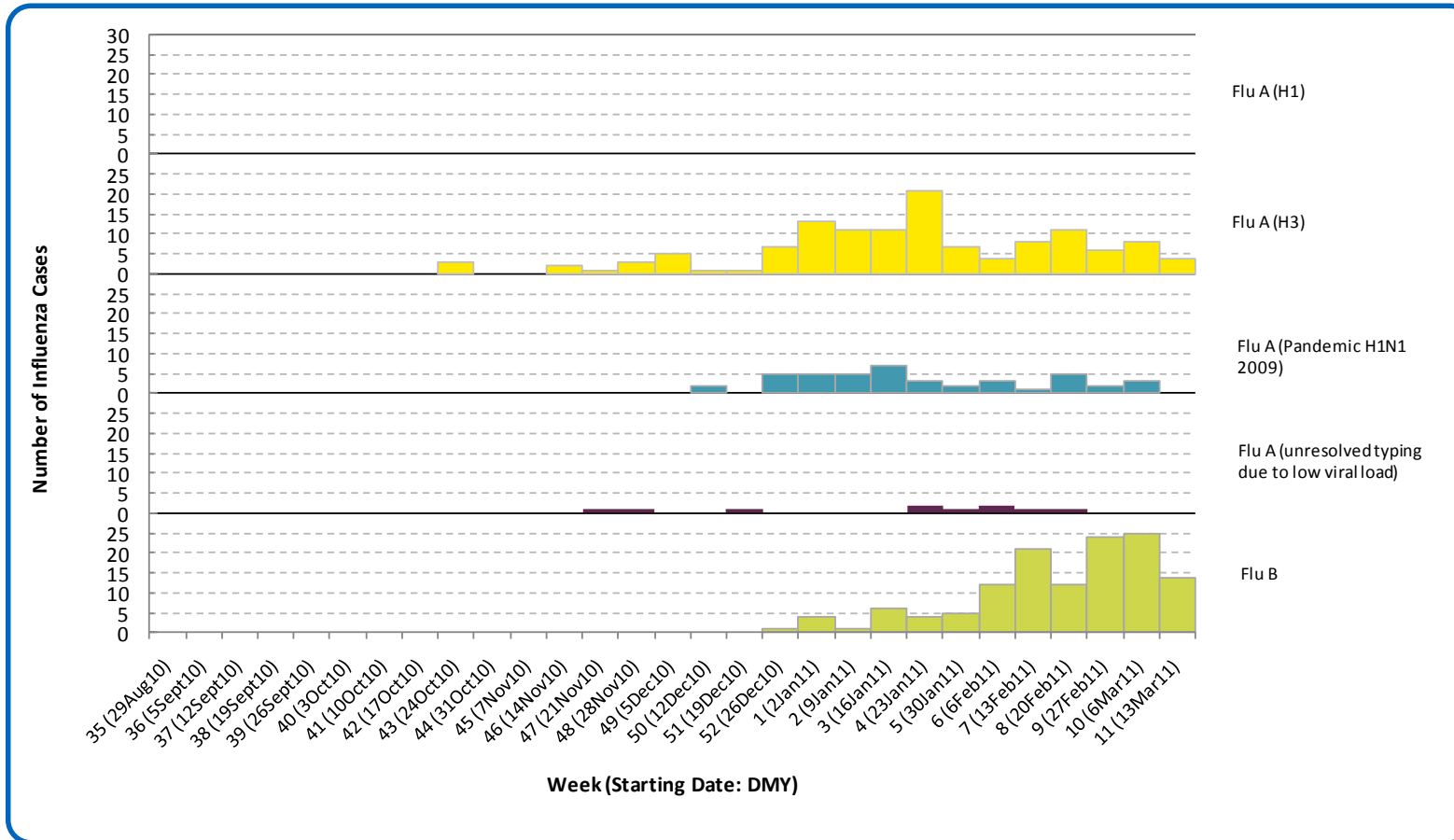
Figure 3B: Respiratory specimen percent positive rates, by virus type, by week, Calgary Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Mar 19, 2011)  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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Figure 3C: Laboratory confirmed influenza cases, by subtype, by week specimen received, Calgary Zone (2010-2011)



\*Note: 7 specimens were positive for influenza A or B and one or more other virus type(s). One specimen was positive for both influenza A & B.

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011).

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 3A: New influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Week 11: Mar 13-19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
	0 to <2 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5	2
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	3	0.6	3	0.6
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9 to <18 years	0	0.0	2	0.1	0	0.0	0	0.0	6	0.4	8	0.5
18 to <65 years	0	0.0	2	<0.1	0	0.0	0	0.0	3	<0.1	5	0.1
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>4</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>14</b>	<b>0.1</b>	<b>18</b>	<b>0.1</b>

**Table 3B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Calgary Zone (Aug 29, 2010 – Mar 19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
	0 to <2 years	0	0.0	16	4.3	3	0.8	1	0.3	15	4.0	35
2 to <5 years	0	0.0	8	1.6	3	0.6	1	0.2	8	1.6	20	3.9
5 to <9 years	0	0.0	8	1.3	1	0.2	2	0.3	24	3.8	35	5.6
9 to <18 years	0	0.0	11	0.7	1	0.1	2	0.1	38	2.6	52	3.5
18 to <65 years	0	0.0	58	0.6	34	0.4	3	<0.1	42	0.5	137	1.5
65 to <75 years	0	0.0	7	1.0	1	0.1	0	0.0	1	0.1	9	1.3
75+ years	0	0.0	19	3.2	0	0.0	1	0.2	1	0.2	21	3.6
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>127</b>	<b>0.9</b>	<b>43</b>	<b>0.3</b>	<b>10</b>	<b>0.1</b>	<b>129</b>	<b>1.0</b>	<b>309</b>	<b>2.3</b>

Source for tables 3A & 3B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 19, 2011*).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHICIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

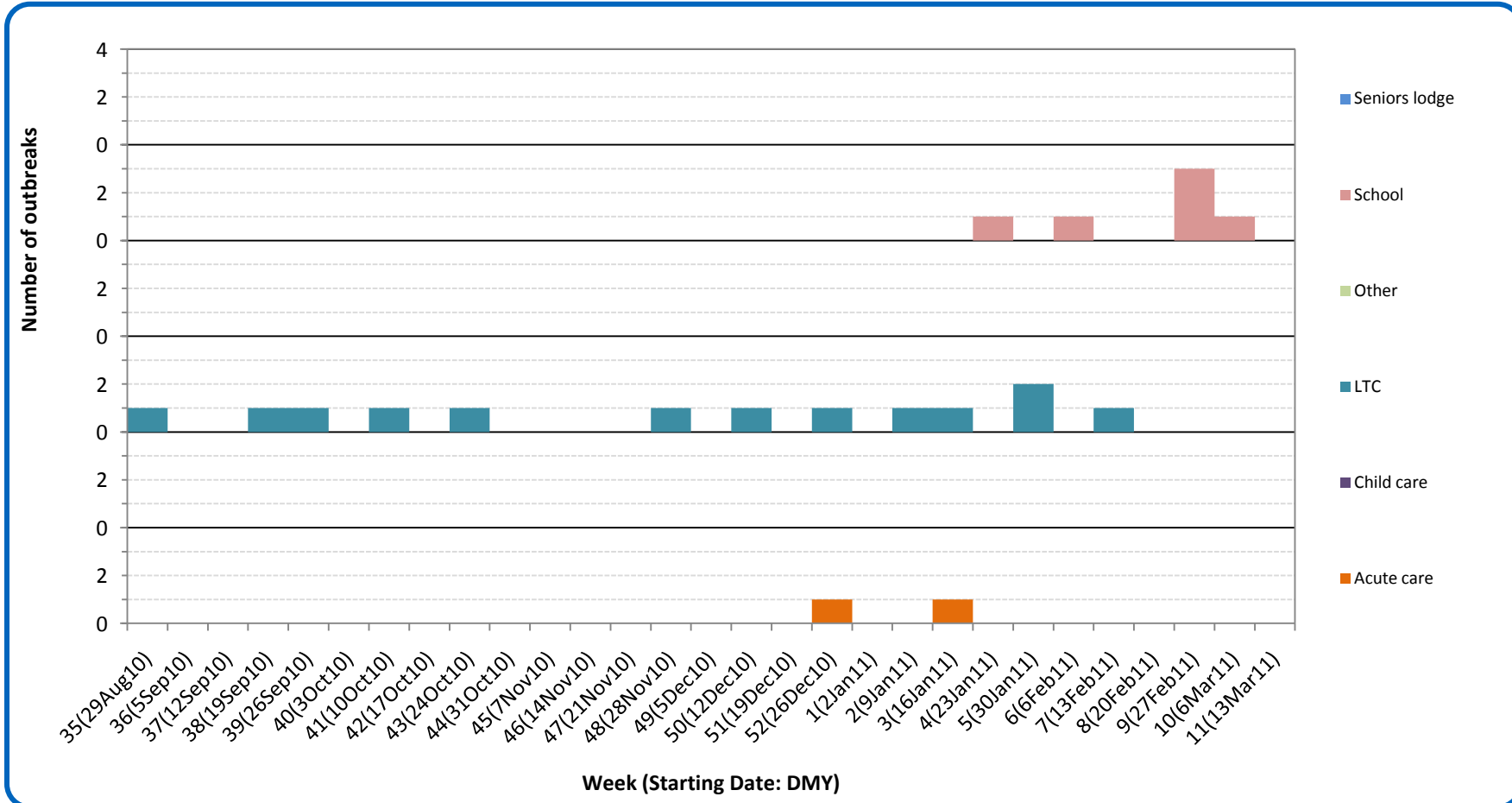
### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3D: Respiratory outbreaks, by facility type, by onset week, Calgary Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Mar 19, 2011. LTC stands for long term care facility. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

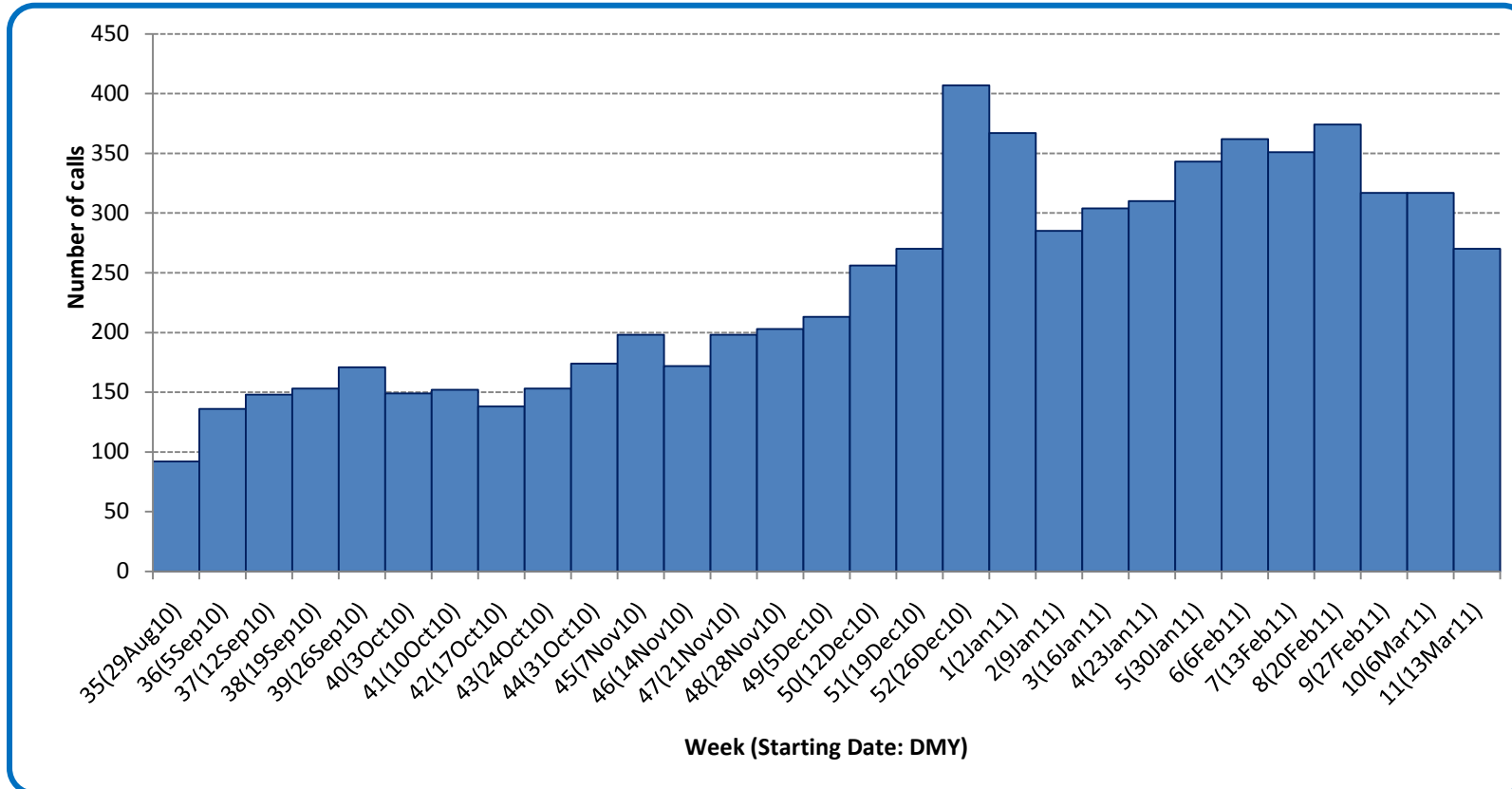
Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Calgary Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 19, 2011. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

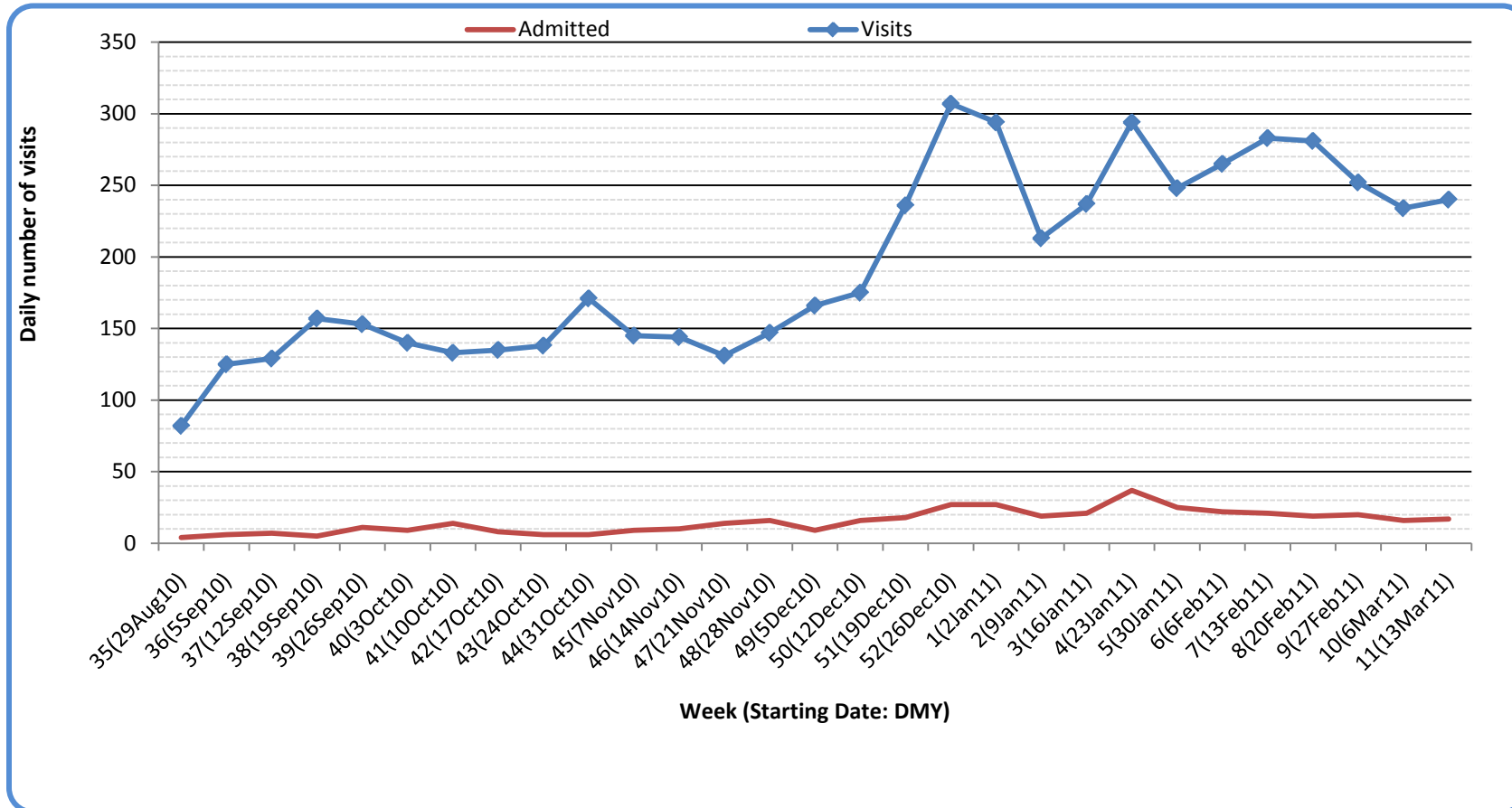
**Public Health Surveillance**

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3F: Visits to urban emergency departments/urgent care centers in the City of Calgary with cough symptoms and admissions to hospitals, by visit week (2010-2011)



Source: Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 19, 2011.  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

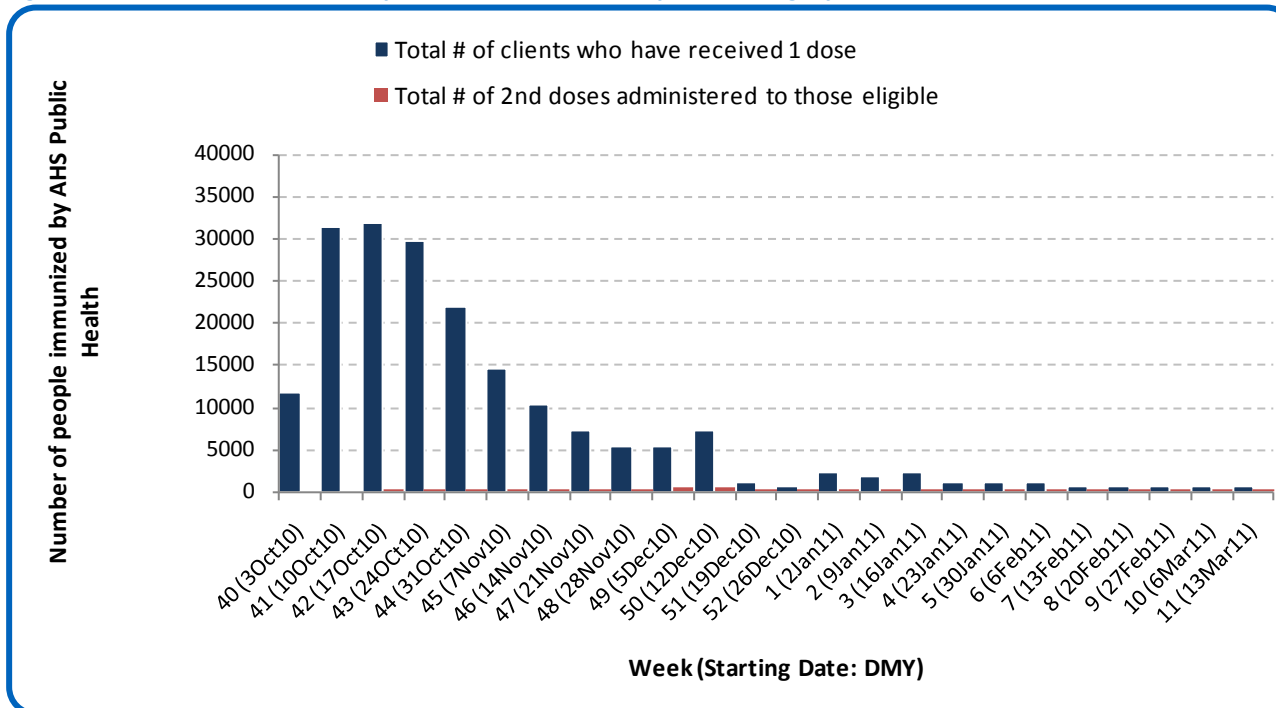
**Public Health Surveillance**

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 3G: Number immunized by AHS (Public Health), by week, Calgary Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)  
 Note: Immunization coverage rates will be reported at the end of the influenza season  
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

**Public Health Surveillance**

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 3C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Calgary Zone (2010-2011)**

Priority Group	Number Immunized (Week 11 – Mar13-19, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	0	452
Health care workers	6	5,343
Pregnant women	10	1,982
Residents of long term care	0	706
65 years of age and over	8	44,704
All children 6 months up to and including 23 months*	Dose #1	287
	Dose #2	169
All children 24 months up to and including 59 months*	Dose #1	63
	Dose #2	10
High risk: 5 years up to and including 8 years*	Dose #1	16
	Dose #2	2
High risk: 9 years up to and including 64 years	16	19,993
Healthy: 5 years up to and including 8 years*	Dose #1	44
	Dose #2	5
Healthy: 9 years up to and including 64 years	186	84,135
<b>Total number of clients who have received 1 dose</b>	<b>636</b>	<b>192,259</b>
<b>Total number of 2nd doses administered to those eligible*</b>	<b>186</b>	<b>4,822</b>

Source: AHS Zones (doses do not include those delivered by external providers)

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 3D: Influenza immunizations delivered by external partners, by priority group, Calgary Zone (Oct 3-Dec 31, 2010)**

Priority Group	# Immunized Oct 3-Dec 31, 2010	
Long term care staff	3,348	
Health care workers	13,764	
Pregnant women	1,257	
Residents of long term care	3,539	
65 years of age and over	27,582	
All children 6 months up to and including 23 months*	Dose #1	660
	Dose #2**	0
All children 24 months up to and including 59 months*	Dose #1	523
	Dose #2**	0
High risk: 5 years up to and including 8 years*	Dose #1	788
	Dose #2**	0
High risk: 9 years up to and including 64 years	14,231	
Healthy: 5 years up to and including 8 years*	Dose #1	1,280
	Dose #2**	0
Healthy: 9 years up to and including 64 years	53,436	
<b>Total number of clients who have received 1 dose</b>	<b>120,408</b>	
Total number of 2nd doses administered to those eligible*	0	

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

\*\*In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, dose 1 category may contain some 2<sup>nd</sup> doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

## SECTION 4: ZONE 3 - CENTRAL

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### Summary

Despite a gradual and slow decline in laboratory confirmed RSV, respiratory virus activity appears to be relatively unchanged in Central Zone.

### Laboratory Data (see [Figure 4A](#), [Figure 4B](#), [Figure 4C](#), [Table 4A](#) & [Table 4B](#))

RSV is still the predominant virus being confirmed in Central Zone. As of the end of Week 11 (Mar 19, 2011), the total number of influenza cases confirmed this season is 112. At this point in the season, the age-specific rate for confirmed cases of influenza (all types) is highest for infants under the age of 2 years (at 10.7 per 10,000) and adults aged 75 years and over (at 8.5 per 10,000).

### Outbreaks (see [Figure 4D](#))

Since last week's update, one respiratory outbreak was reported in a Central Zone school. The onset of symptoms occurred during Week 10 (Mar 6-12, 2011) and the preliminary attack rate is 11%.

### Health Link Alberta Calls (see [Figure 4E](#))

Although the number of calls to Health Link Alberta by residents of Central Zone for cough or breathing difficulties decreased by 17% in Week 11 (Mar 13-19, 2011) compared to the previous week, the general trend in recent weeks has been relatively stable with some fluctuations.

### Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available from this zone.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

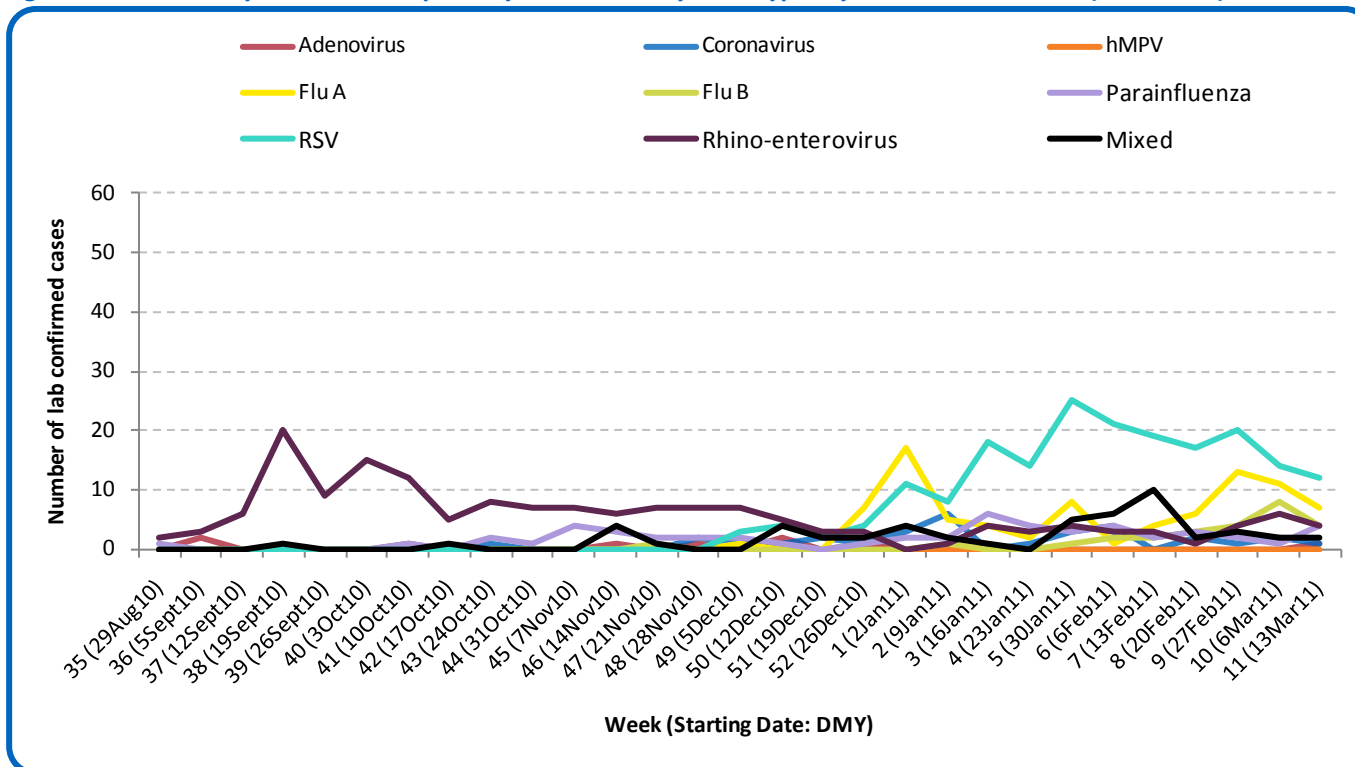
### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4A: Laboratory confirmed respiratory virus cases, by virus type, by week, Central Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

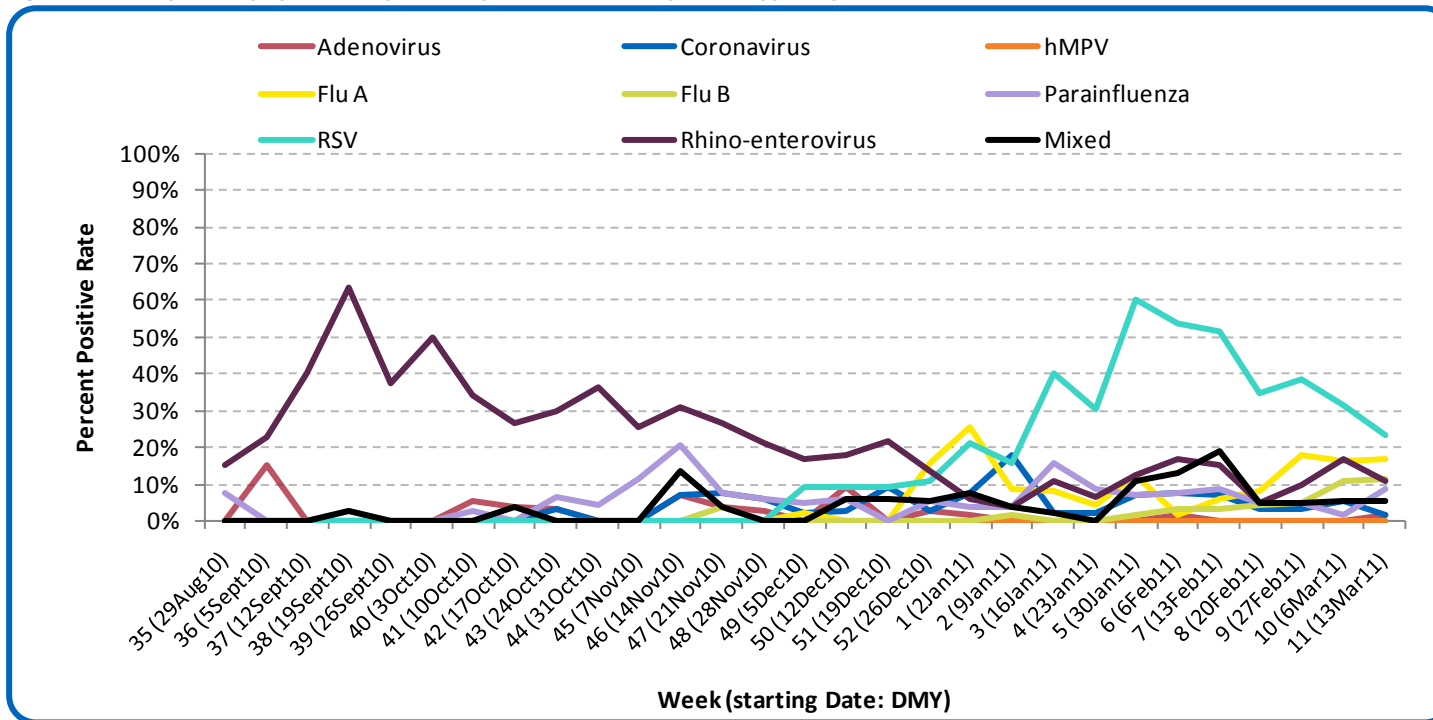
Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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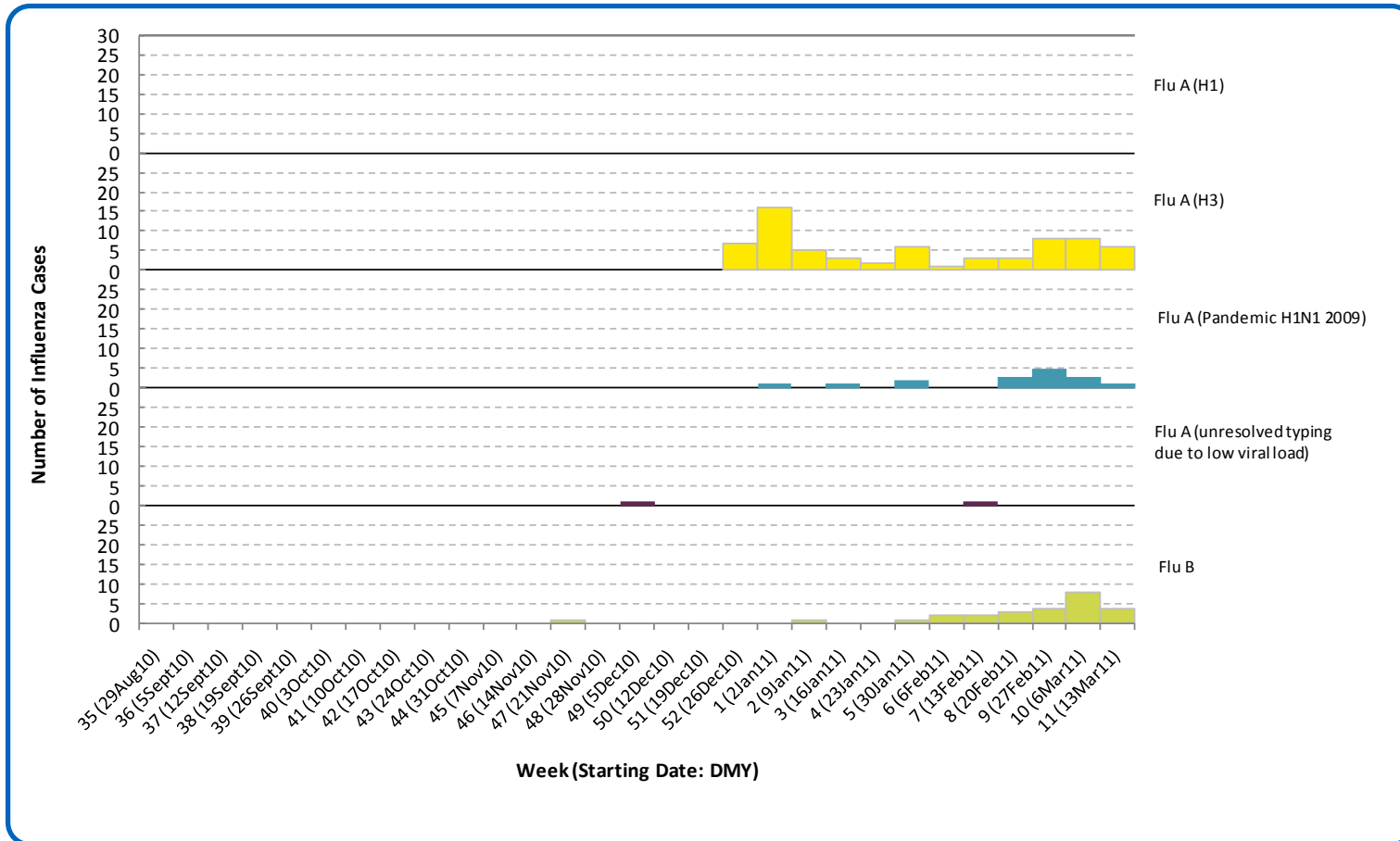
Figure 4B: Respiratory specimen percent positive rates, by virus type, by week, Central Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Mar 19, 2011)  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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Figure 4C: Laboratory confirmed influenza cases, by subtype, by week specimen received, Central Zone (2010-2011)



\*Note: 7 specimens were positive for influenza A or B and one or more other virus type(s).

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011).

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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**Table 4A: New influenza cases (and age specific rates), by subtype, by age group, Central Zone (Week 11: Mar 13-19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2 to <5 years	0	0.0	1	0.6	0	0.0	0	0.0	2	1.2	3	1.7
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5	1	0.5
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	1	0.2
18 to <65 years	0	0.0	1	<0.1	1	<0.1	0	0.0	0	0.0	2	0.1
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	4	1.5	0	0.0	0	0.0	0	0.0	4	1.5
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>6</b>	<b>0.1</b>	<b>1</b>	<b>&lt;0.1</b>	<b>0</b>	<b>0.0</b>	<b>4</b>	<b>0.1</b>	<b>11</b>	<b>0.2</b>

**Table 4B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Central Zone (Aug 29, 2010 – Mar 19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	9	7.4	0	0.0	0	0.0	4	3.3	13	10.7
2 to <5 years	0	0.0	1	0.6	2	1.2	0	0.0	5	2.9	8	4.6
5 to <9 years	0	0.0	2	0.9	0	0.0	0	0.0	4	1.8	6	2.7
9 to <18 years	0	0.0	2	0.4	2	0.4	0	0.0	4	0.7	8	1.5
18 to <65 years	0	0.0	29	1.0	12	0.4	2	0.1	9	0.3	52	1.9
65 to <75 years	0	0.0	2	0.7	0	0.0	0	0.0	0	0.0	2	0.7
75+ years	0	0.0	23	8.5	0	0.0	0	0.0	0	0.0	23	8.5
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>68</b>	<b>1.5</b>	<b>16</b>	<b>0.4</b>	<b>2</b>	<b>&lt;0.1</b>	<b>26</b>	<b>0.6</b>	<b>112</b>	<b>2.5</b>

Source for Tables 4A & 4B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 19, 2011*).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

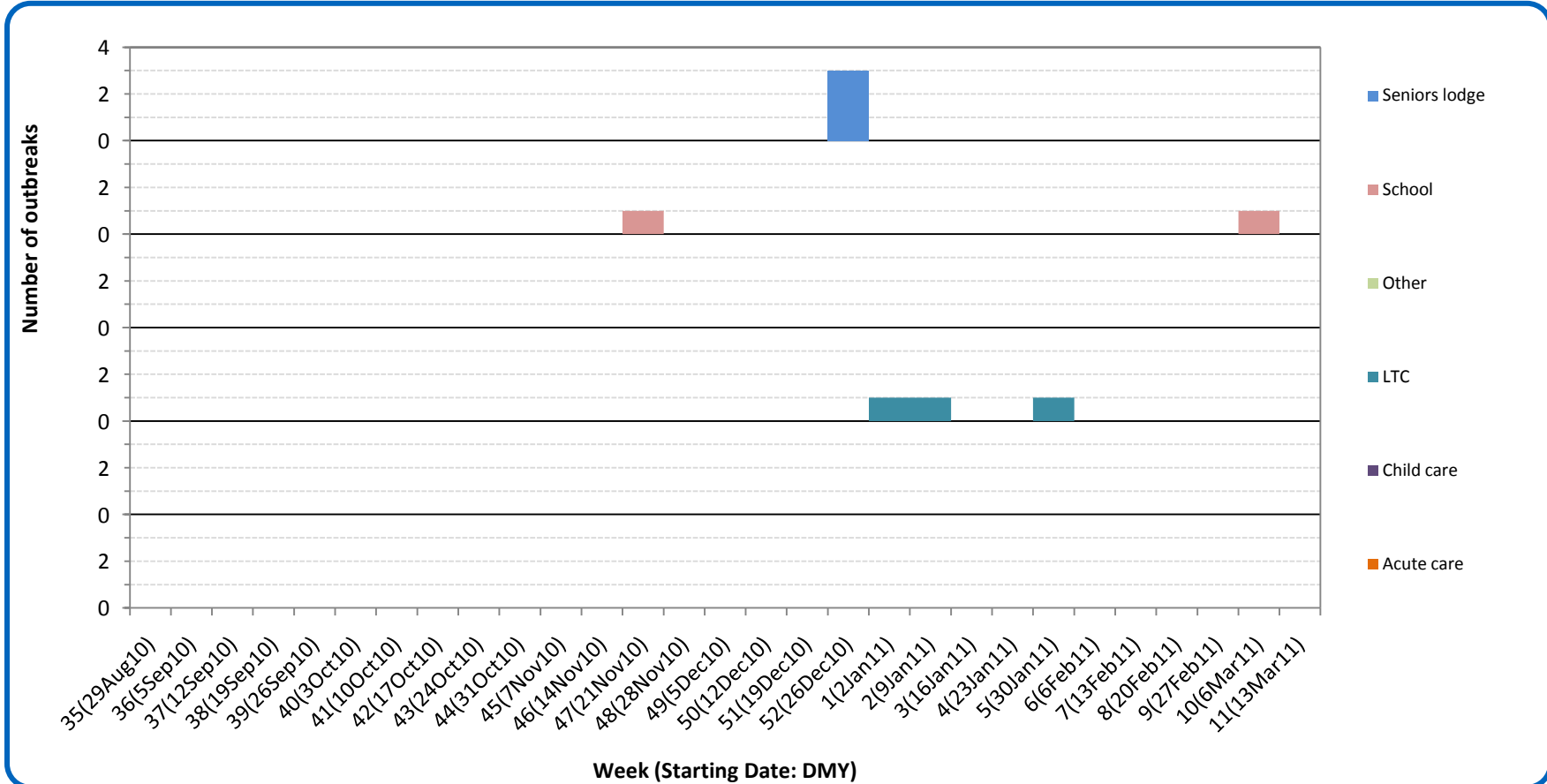
### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4D: Respiratory outbreaks, by facility type, by onset week, Central Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Mar 19, 2011.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#). LTC stands for long term care facility.

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

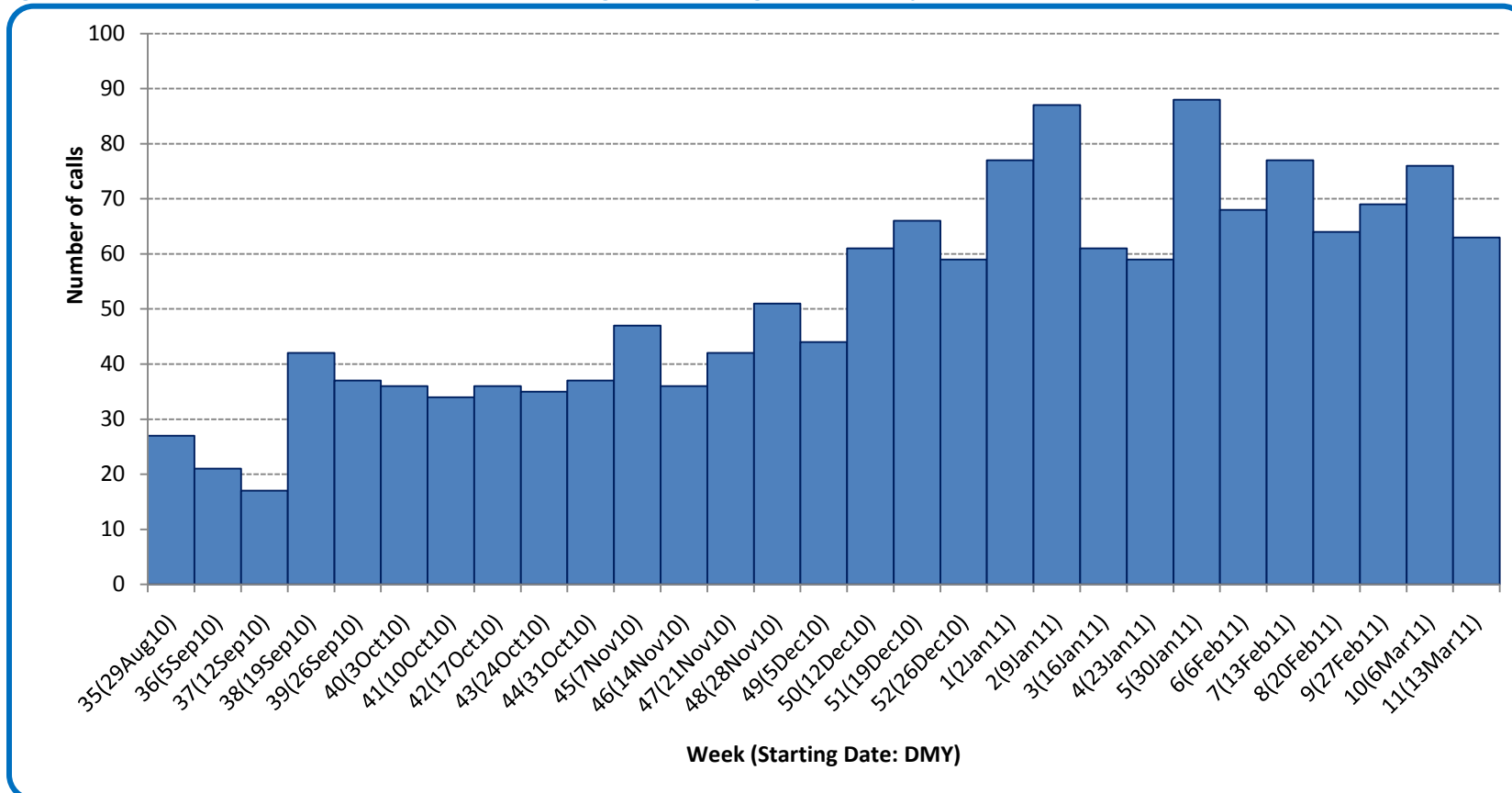
**Public Health Surveillance**

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Central Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 19, 2011.  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

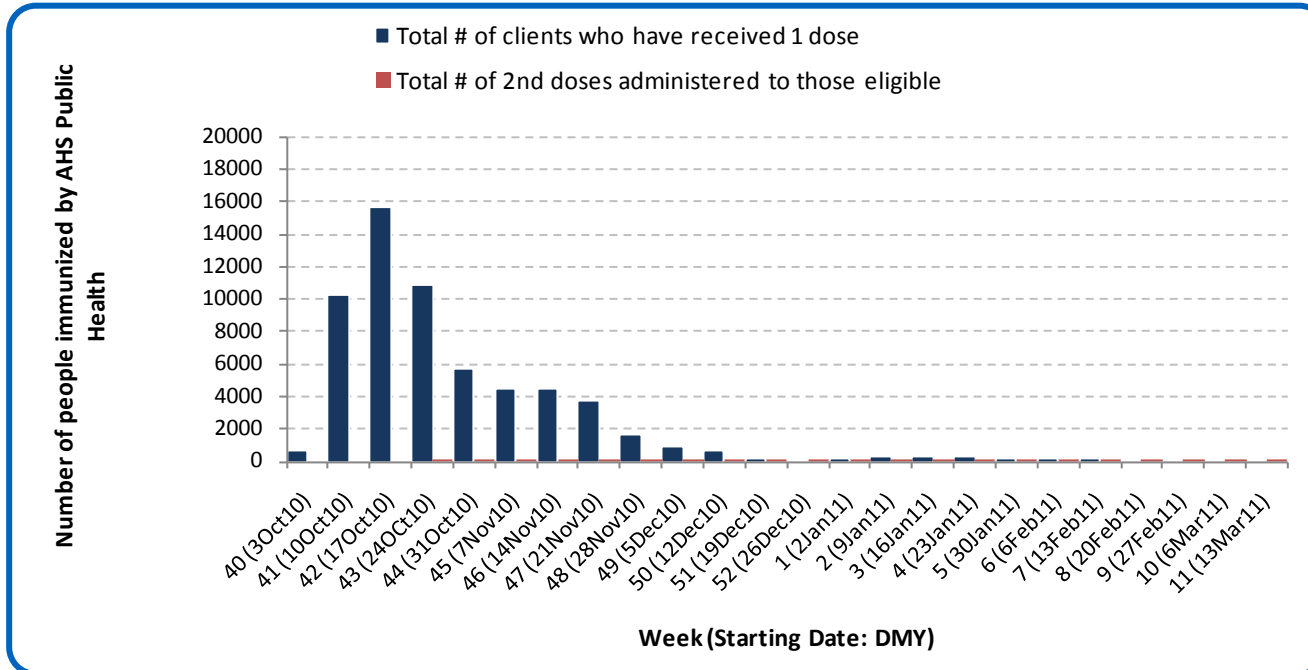
**Public Health Surveillance**

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 4F: Number immunized by AHS (Public Health), by week, Central Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)  
 Note: Immunization coverage rates will be reported at the end of the influenza season  
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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**Table 4C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Central Zone (2010-2011)**

Priority Group	Number Immunized (Week 11 – Mar13-19, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	2	423
Health care workers	3	2,614
Pregnant women	0	427
Residents of long term care	1	1,105
65 years of age and over	2	22,160
All children 6 months up to and including 23 months*	Dose #1	8
	Dose #2	16
All children 24 months up to and including 59 months*	Dose #1	6
	Dose #2	2
High risk: 5 years up to and including 8 years*	Dose #1	1
	Dose #2	0
High risk: 9 years up to and including 64 years	3	6,881
Healthy: 5 years up to and including 8 years*	Dose #1	1
	Dose #2	0
Healthy: 9 years up to and including 64 years	7	20,791
<b>Total number of clients who have received 1 dose</b>	<b>34</b>	<b>61,708</b>
<b>Total number of 2nd doses administered to those eligible*</b>	<b>18</b>	<b>1,335</b>

Source: AHS Zones (doses do not include those delivered by external providers)

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 4D: Influenza immunizations delivered by external partners, by priority group, Central Zone (Oct 3-Dec 31, 2010)**

Priority Group	# Immunized Oct 3-Dec 31, 2010	
Long term care staff	827	
Health care workers	5,744	
Pregnant women	8	
Residents of long term care	1,748	
65 years of age and over	4,063	
All children 6 months up to and including 23 months*	Dose #1	1
	Dose #2**	0
All children 24 months up to and including 59 months*	Dose #1	4
	Dose #2**	0
High risk: 5 years up to and including 8 years*	Dose #1	8
	Dose #2**	0
High risk: 9 years up to and including 64 years	1,609	
Healthy: 5 years up to and including 8 years*	Dose #1	15
	Dose #2**	0
Healthy: 9 years up to and including 64 years	3,762	
<b>Total number of clients who have received 1 dose</b>	<b>17,789</b>	
Total number of 2nd doses administered to those eligible*	0	

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

\*\*In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, dose 1 category may contain some 2<sup>nd</sup> doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

## SECTION 5: ZONE 4 – EDMONTON

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### Summary

Overall, the trends in the indicators for respiratory virus activity are mixed. Despite a clear decline in RSV activity and gradual decreases in some respiratory virus indicators in recent weeks, there is no clear indication that respiratory virus activity is decreasing in Edmonton Zone.

### Laboratory Data (see [Figure 5A](#), [Figure 5B](#), [Figure 5C](#), [Table 5A](#) & [Table 5B](#))

RSV activity continues to decline in Edmonton Zone. Over ¾ of the new influenza cases identified last week (Mar 13-19, 2011) were identified as influenza B. As of the end of last week (Mar 19, 2011), the total number of influenza cases confirmed in this part of the province this season is 329. The age-specific rate for confirmed influenza (all types) for infants less than 2 years of age is higher compared to other age groups, at 18.9 per 10,000 (compared to 6.9 per 10,000 or lower for other age groups).

### Outbreaks (see [Figure 5D](#))

There are no new respiratory outbreaks to report in Edmonton Zone.

### Health Link Alberta Calls (see [Figure 5E](#))

Despite a small increase in the number of calls to Health Link Alberta by residents of Edmonton Zone for cough or breathing difficulties in Week 11 (Mar 13-19, 2011) compared to the previous week, there has been a general decreasing trend in this indicator that has been occurring since mid-February, 2011.

### Emergency Department/Urgent Care Center Visits and Hospital Admissions (See [Figure 5F](#))

The number of visits to nine emergency departments/urgent care centers for ILI symptoms and the number of hospital admissions decreased by 15% and 17%, respectively, from Week 10 (Mar 6-12, 2011) to Week 11 (Mar 13-19, 2011). These two indicators have been declining consistently since the middle of February, 2011.

Also from Week 10 to Week 11, the number of visits and the number of hospital admissions for cough/congestion symptoms decreased as well, by 25% and 22%, respectively. Despite these decreases, the visit and admission trends for cough symptoms have not been declining as consistently as those seen for ILI symptoms.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

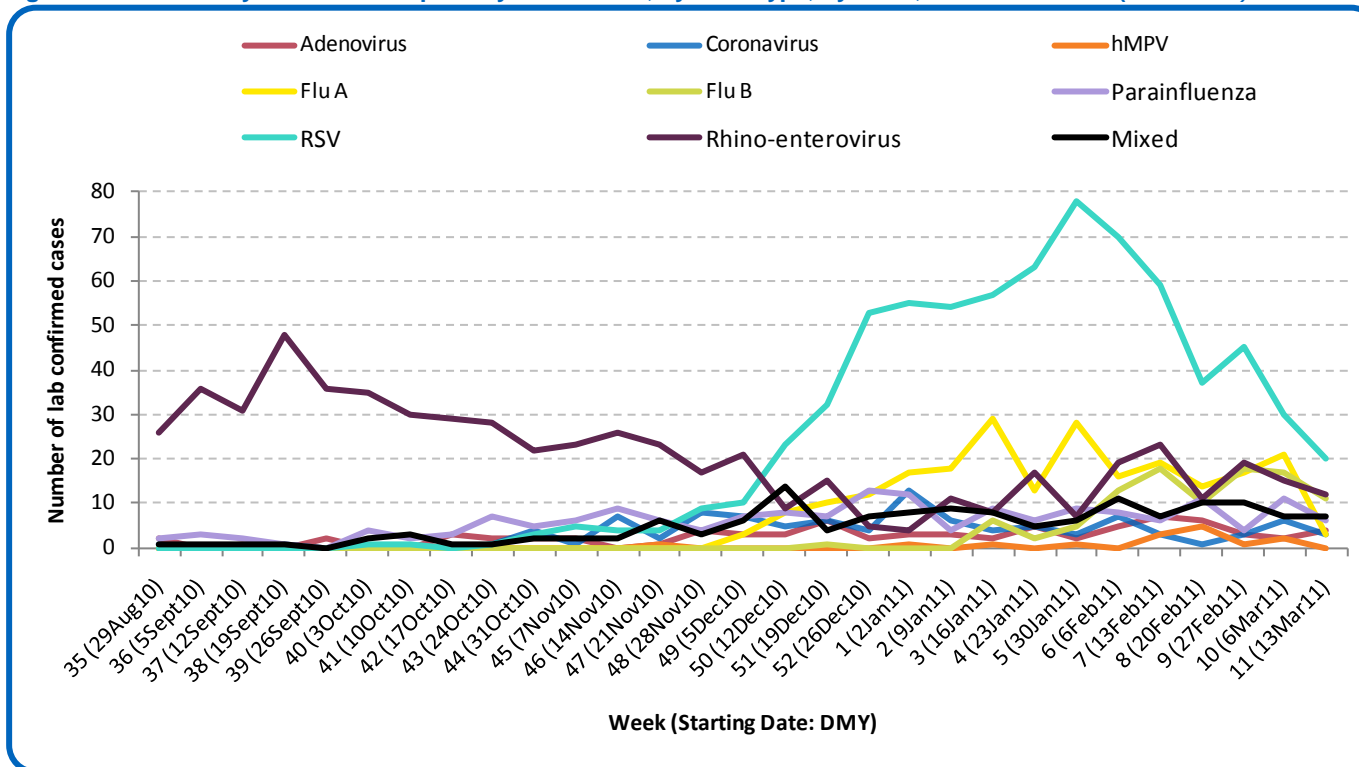
### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5A: Laboratory confirmed respiratory virus cases, by virus type, by week, Edmonton Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

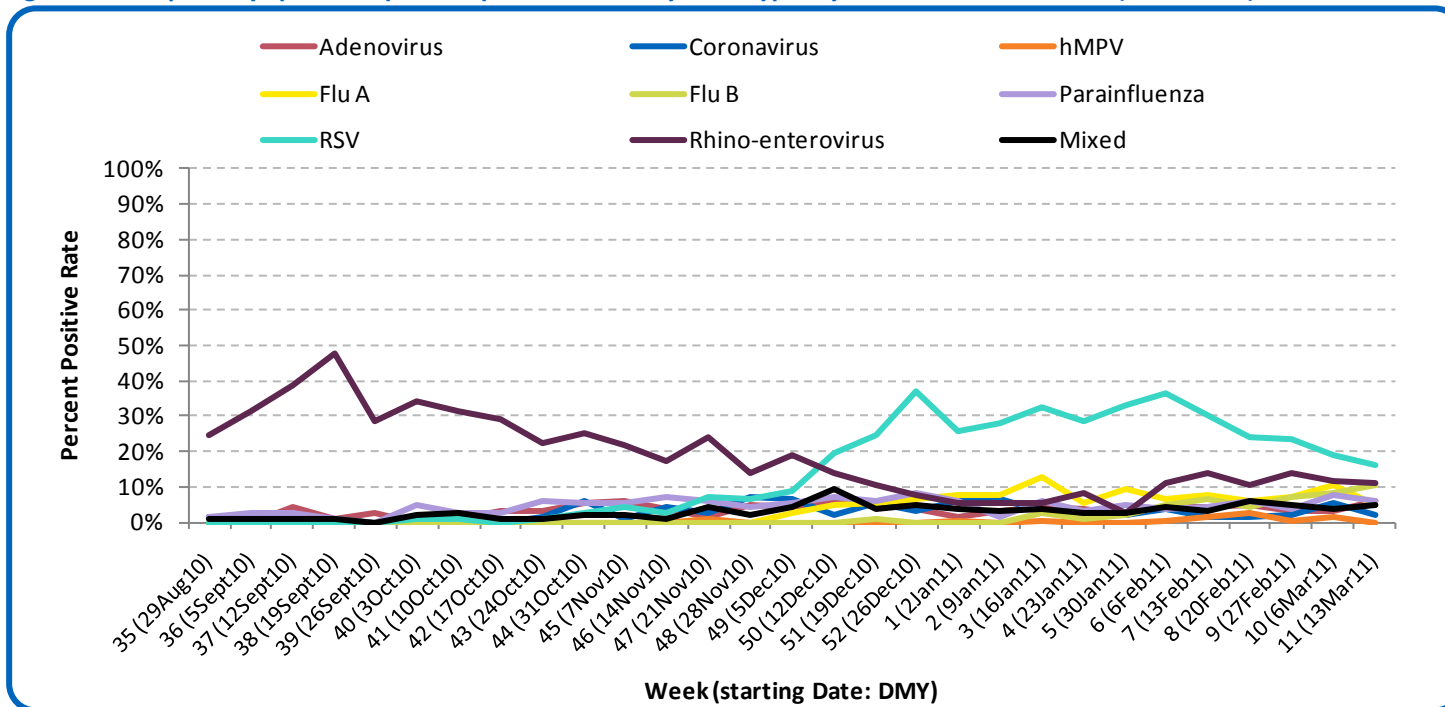
Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5B: Respiratory specimen percent positive rates, by virus type, by week, Edmonton Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Mar 19, 2011)  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

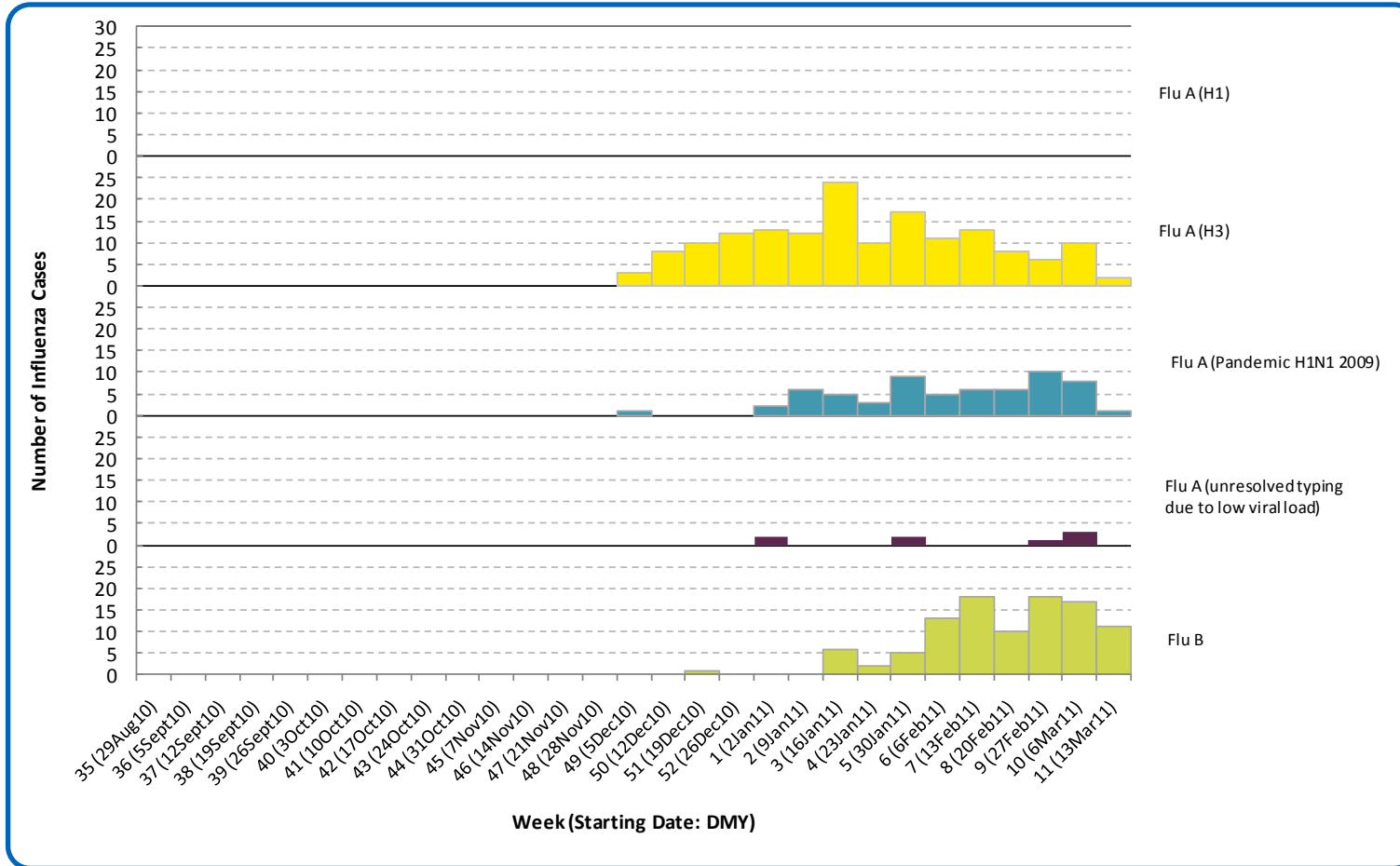
Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5C: Laboratory confirmed influenza cases, by subtype, by week specimen received, Edmonton Zone (2010-2011)



\*Note: 10 specimens were positive for influenza A or B and one or more other virus type(s).

Source: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011).

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 5A: New influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Week 11: Mar 13-19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
	0 to <2 years	0	0.0	1	0.3	0	0.0	0	0.0	2	0.7	3
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5 to <9 years	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	1	0.2
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	4	0.3	4	0.3
18 to <65 years	0	0.0	0	0.0	1	<0.1	0	0.0	1	<0.1	2	0.0
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	4	0.7	4	0.7
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>2</b>	<b>&lt;0.1</b>	<b>1</b>	<b>&lt;0.1</b>	<b>0</b>	<b>0.0</b>	<b>11</b>	<b>0.1</b>	<b>14</b>	<b>0.1</b>

**Table 5B: Cumulative influenza cases (and age specific rates), by subtype, by age group, Edmonton Zone (Aug 29, 2010 – Mar 19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
	0 to <2 years	0	0.0	29	9.6	8	2.7	3	1.0	17	5.6	57
2 to <5 years	0	0.0	14	3.4	4	1.0	1	0.2	8	1.9	27	6.5
5 to <9 years	0	0.0	8	1.6	3	0.6	0	0.0	14	2.7	25	4.9
9 to <18 years	0	0.0	6	0.5	2	0.2	0	0.0	32	2.6	40	3.2
18 to <65 years	0	0.0	61	0.8	45	0.6	3	<0.1	18	0.2	127	1.7
65 to <75 years	0	0.0	8	1.2	0	0.0	0	0.0	4	0.6	12	1.8
75+ years	0	0.0	32	5.4	0	0.0	1	0.2	8	1.4	41	6.9
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>158</b>	<b>1.4</b>	<b>62</b>	<b>0.5</b>	<b>8</b>	<b>0.1</b>	<b>101</b>	<b>0.9</b>	<b>329</b>	<b>2.9</b>

Source for tables 5A & 5B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

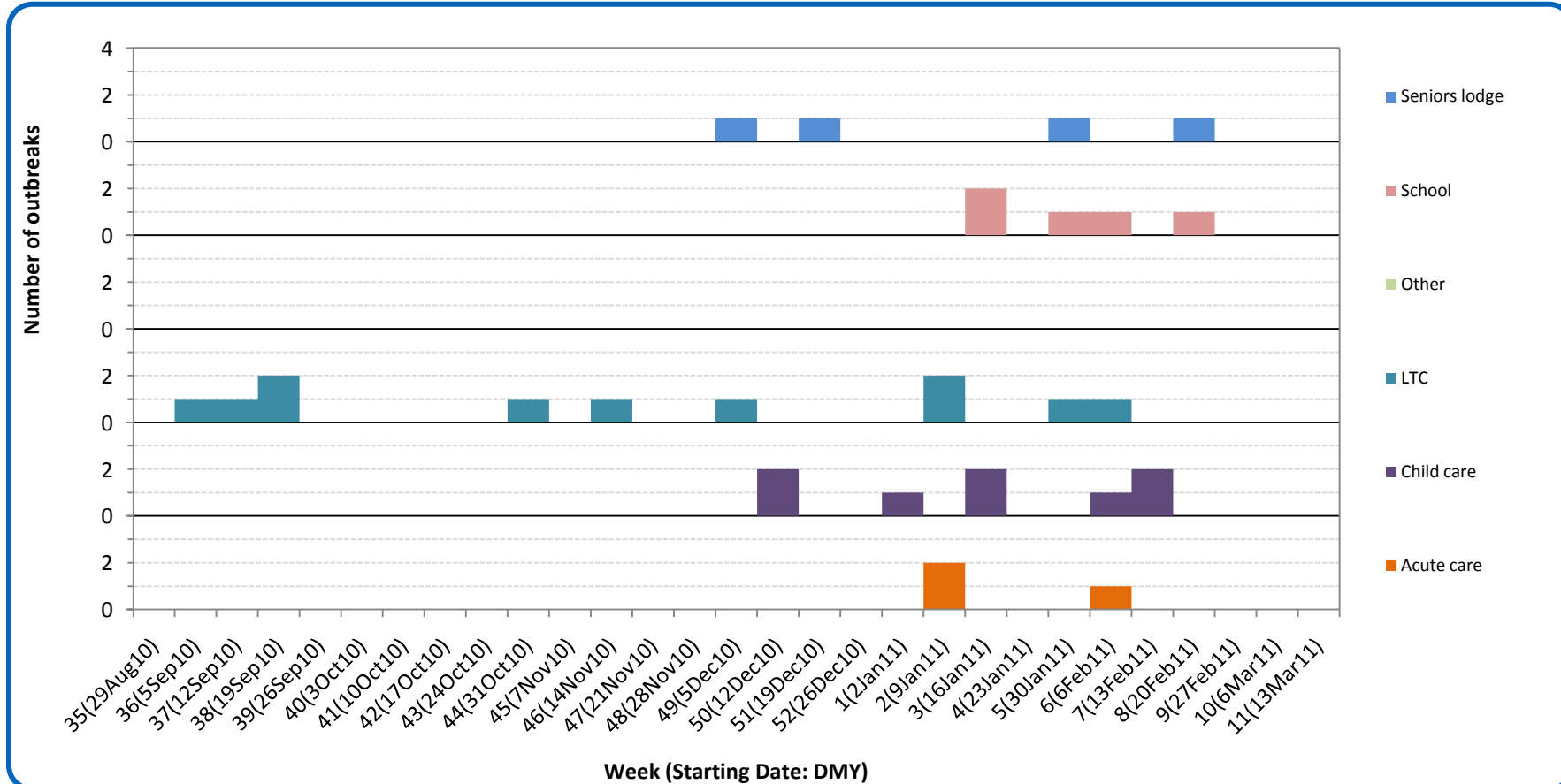
### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5D: Respiratory outbreaks, by facility type, by onset week, Edmonton Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Mar 19, 2011. LTC stands for long term care facility. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

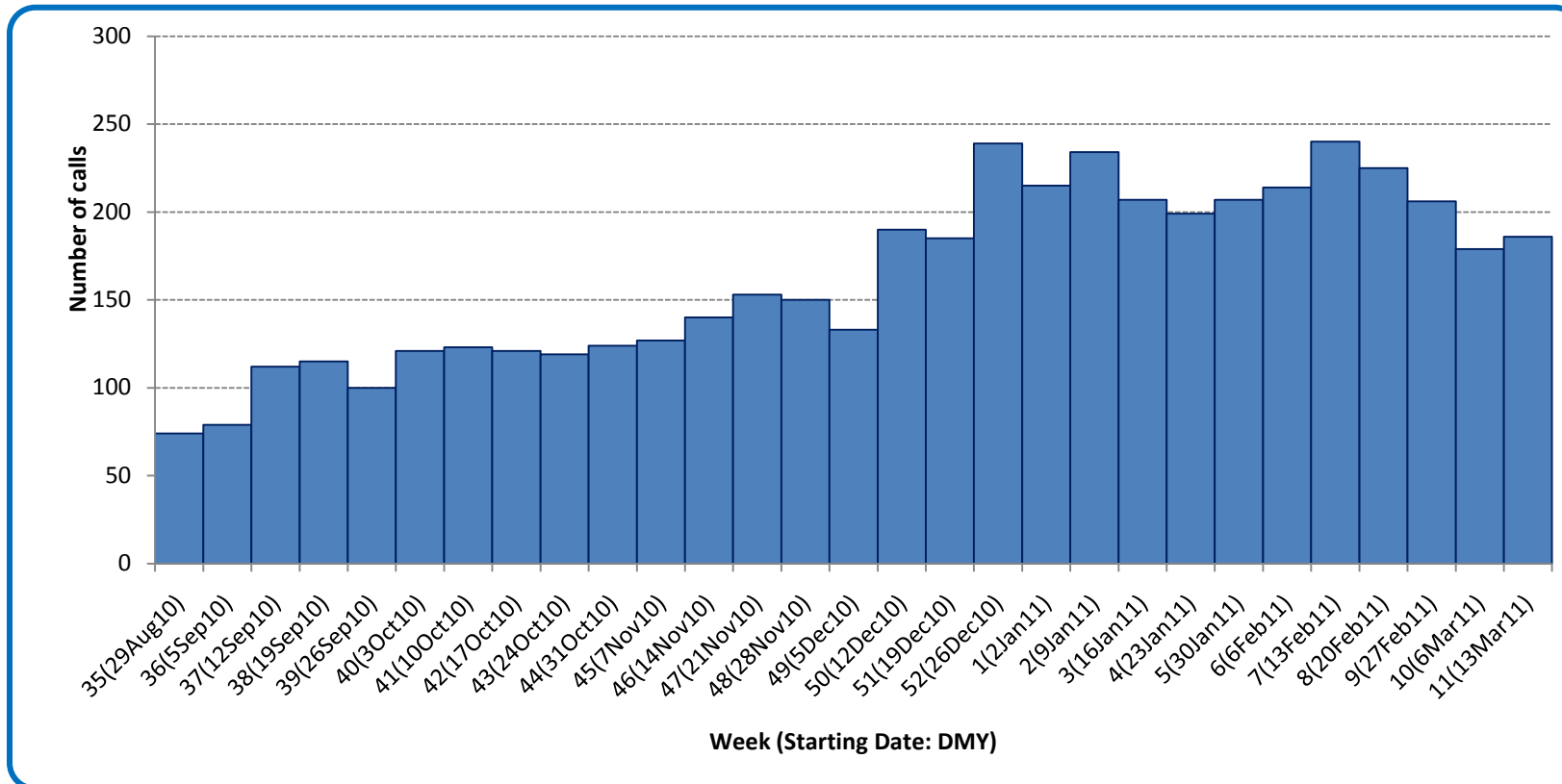
Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 5E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, Edmonton Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 19, 2011. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

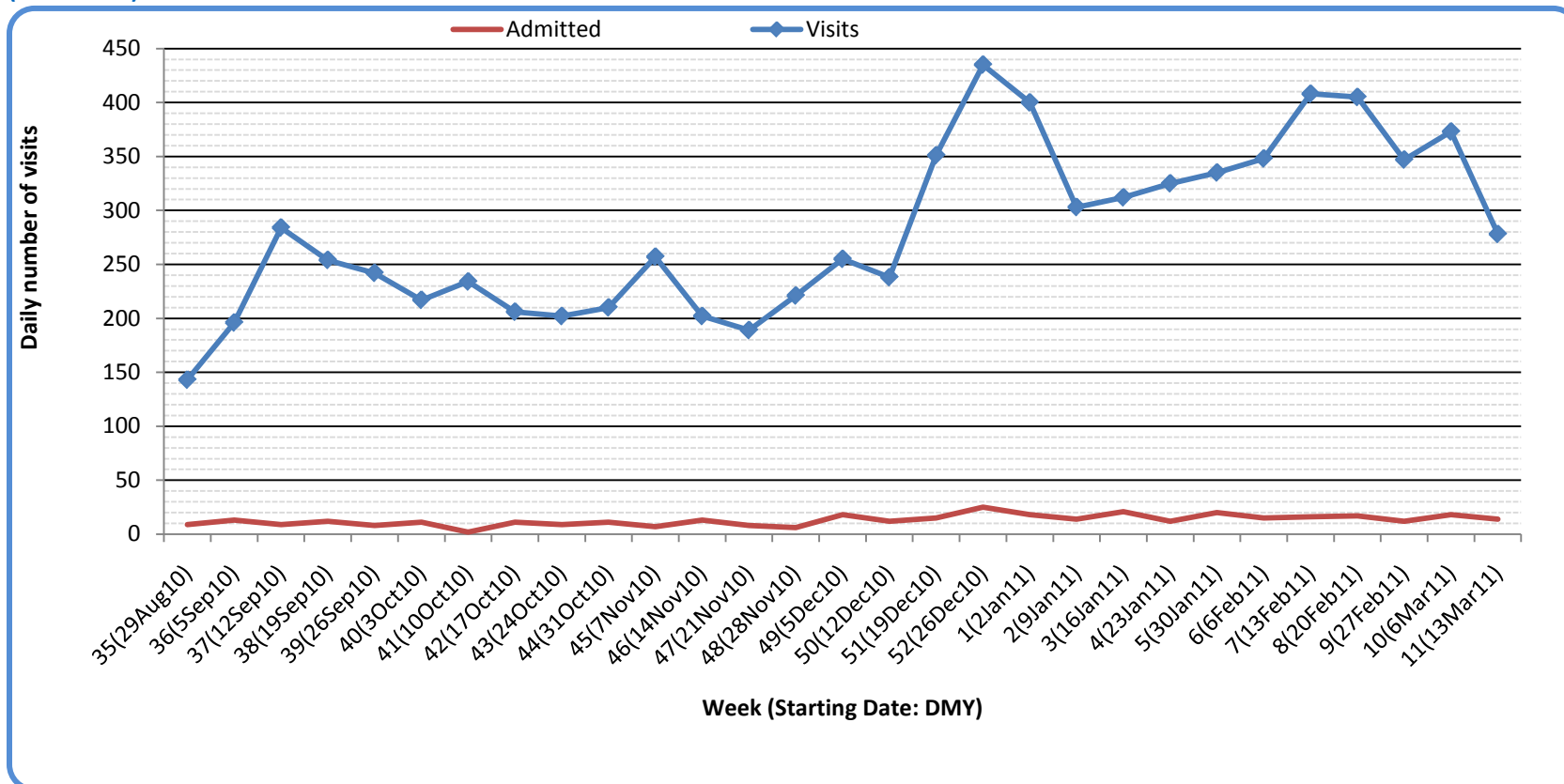
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Public Health Surveillance  
Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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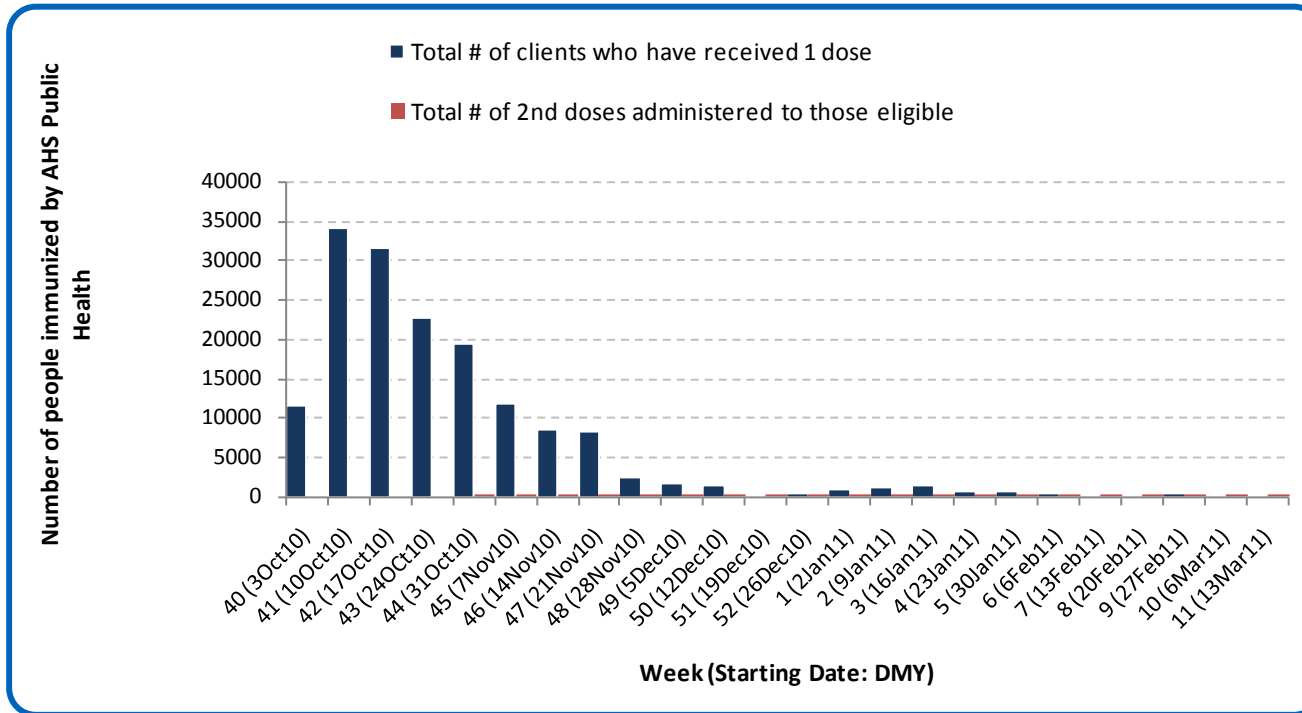
Figure 5F: Visits to emergency departments/urgent care centers for cough/congestion and admissions to hospitals, Edmonton Zone, by visit week (2010-2011)



Source: Alberta Real Time Syndromic Surveillance (ARTSSN) as of 23:59 on Mar 19, 2011.  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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Figure 5G: Number immunized by AHS (Public Health), by week, Edmonton Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)  
 Note: Immunization coverage rates will be reported at the end of the influenza season  
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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**Table 5C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, Edmonton Zone (2010-2011)**

Priority Group	Number Immunized (Week 11 – Mar13-19, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	0	327
Health care workers	2	4,804
Pregnant women	1	1,444
Residents of long term care	0	1,051
65 years of age and over	7	48,504
All children 6 months up to and including 23 months*	Dose #1	54
	Dose #2	44
All children 24 months up to and including 59 months*	Dose #1	5
	Dose #2	2
High risk: 5 years up to and including 8 years*	Dose #1	1
	Dose #2	0
High risk: 9 years up to and including 64 years	10	17,156
Healthy: 5 years up to and including 8 years*	Dose #1	5
	Dose #2	1
Healthy: 9 years up to and including 64 years	54	67,842
<b>Total number of clients who have received 1 dose</b>	<b>139</b>	<b>161,817</b>
<b>Total number of 2nd doses administered to those eligible*</b>	<b>47</b>	<b>2,820</b>

Source: AHS Zones (doses do not include those delivered by external providers)

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 5D: Influenza immunizations delivered by external partners, by priority group, Edmonton Zone (Oct 3-Dec 31, 2010)**

Priority Group	# Immunized Oct 3-Dec 31, 2010	
Long term care staff	926	
Health care workers	8,917	
Pregnant women	166	
Residents of long term care	1,094	
65 years of age and over	15,950	
All children 6 months up to and including 23 months*	Dose #1	295
	Dose #2**	48
All children 24 months up to and including 59 months*	Dose #1	504
	Dose #2**	27
High risk: 5 years up to and including 8 years*	Dose #1	848
	Dose #2**	2
High risk: 9 years up to and including 64 years	10,373	
Healthy: 5 years up to and including 8 years*	Dose #1	915
	Dose #2**	5
Healthy: 9 years up to and including 64 years	22,493	
<b>Total number of clients who have received 1 dose</b>	<b>62,481</b>	
Total number of 2nd doses administered to those eligible*	82	

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

\*\*In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, dose 1 category may contain some 2<sup>nd</sup> doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

**Public Health Surveillance**

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

## SECTION 6: ZONE 5 – NORTH

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### Summary

Despite a continuing decline in RSV activity in North Zone, there is no clear indication that respiratory virus activity appears to be decreasing in North Zone.

### Laboratory Data (see [Figure 6A](#), [Figure 6B](#), [Figure 6C](#), [Table 6A](#) & [Table 6B](#))

RSV activity continues to decline in North Zone. Although influenza A activity appears to be declining, influenza B activity does not. Nearly ¼ of the influenza cases identified last week (Mar 13-19, 2011) were identified as influenza B. At this point in the season, the age specific rate for confirmed influenza (all types) among infants under the age of 2 years is much higher than the rate for any other age group (26.8 per 10,000 compared to 10.1 per 10,000 or lower).

### Outbreaks (see [Figure 6D](#))

Since the last update, there have been two influenza B outbreaks confirmed in North Zone, both occurring in schools. The attack rates for these outbreaks were 10% and 11%.

### Health Link Alberta Calls (see [Figure 6E](#))

The number of calls to Health Link Alberta by residents of North Zone for cough or breathing difficulties was 8% higher in Week 11 (Mar 13-19, 2011) than in the previous week. Generally, this indicator has been fluctuating since the middle of January, 2011.

### Emergency Department/Urgent Care Center Visits and Hospital Admissions

There are no data available for the North Zone.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

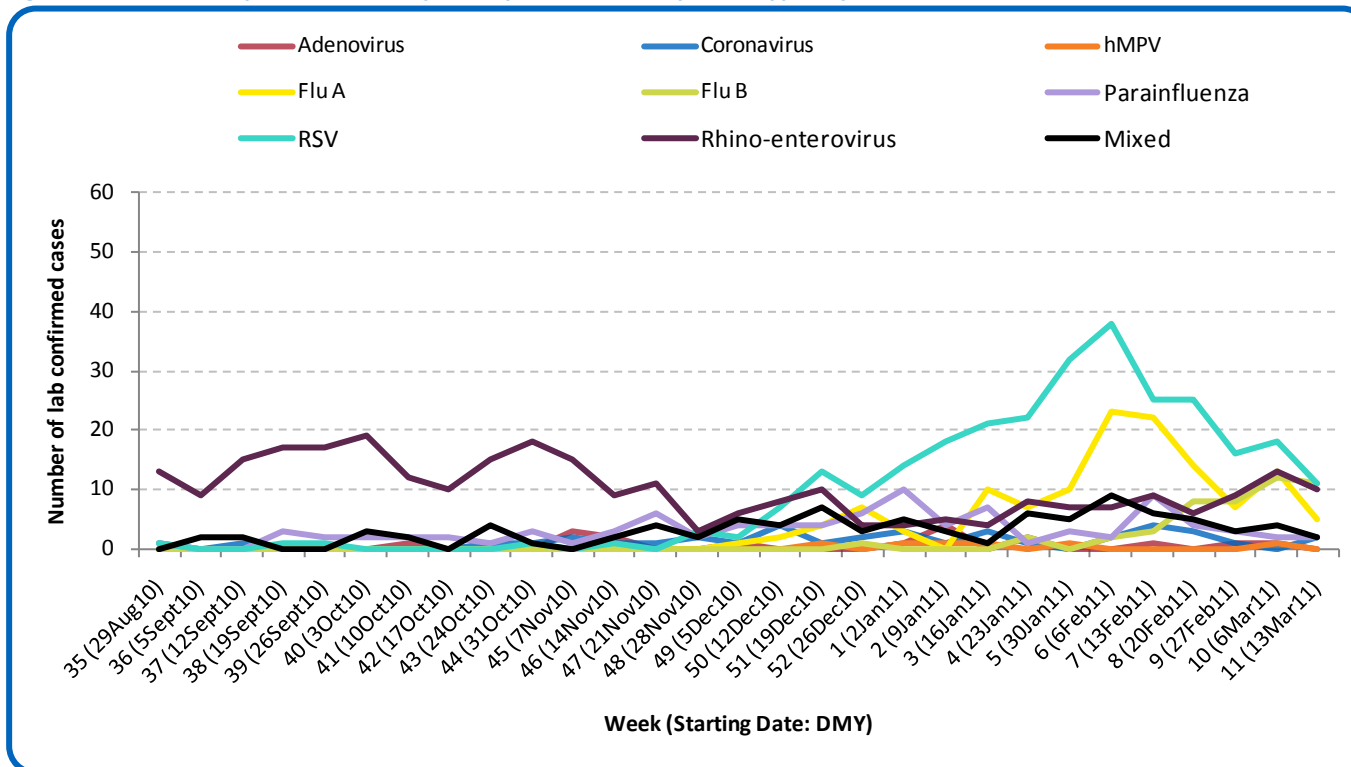
### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 6A: Laboratory confirmed respiratory virus cases, by virus type, by week, North Zone (2010-2011)



Sources: DIAL – Provincial Laboratory and the Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before Mar 19, 2011). For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

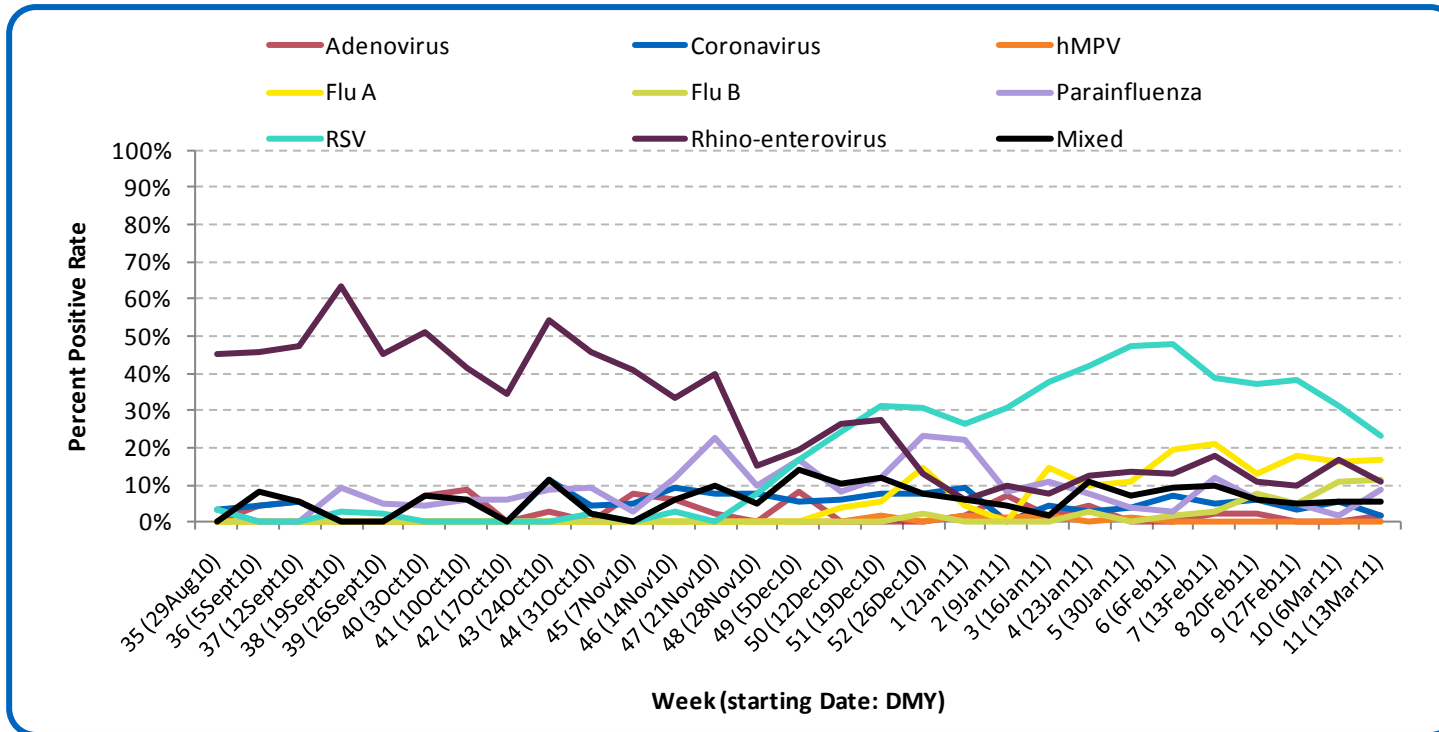
Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 6B: Respiratory specimen percent positive rates, by virus type, by week, North Zone (2010-2011)



Source: DIAL – Provincial Laboratory (includes cases with positive respiratory specimens received on or before Mar 19, 2011)  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)



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**Table 6A: New influenza cases (and age specific rates), by subtype, by age group, North Zone (Week 11: Mar 13-19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	0	0.0	1	0.7	0	0.0	1	0.7	2	1.4
2 to <5 years	0	0.0	0	0.0	0	0.0	0	0.0	3	1.6	3	1.6
5 to <9 years	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	1	0.4
9 to <18 years	0	0.0	0	0.0	0	0.0	0	0.0	4	0.7	4	0.7
18 to <65 years	0	0.0	0	0.0	4	0.1	0	0.0	0	0.0	4	0.1
65 to <75 years	0	0.0	0	0.0	0	0.0	0	0.0	2	0.9	2	0.9
75+ years	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>5</b>	<b>0.1</b>	<b>0</b>	<b>0.0</b>	<b>11</b>	<b>0.3</b>	<b>16</b>	<b>0.4</b>

**Table 6B: Cumulative influenza cases (and age specific rates), by subtype, by age group, North Zone (Aug 29, 2010-Mar 19, 2011)**

	Flu A (Seasonal-H1)		Flu A (Seasonal-H3)		Flu A (Pandemic H1N1 2009)		Flu A (unresolved typing due to low viral load)		Flu B		Total	
	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)	#	Rate (per 10,000)
0 to <2 years	0	0.0	12	8.7	14	10.1	1	0.7	10	7.2	37	26.8
2 to <5 years	0	0.0	6	3.1	4	2.1	0	0.0	8	4.2	18	9.4
5 to <9 years	0	0.0	11	4.6	5	2.1	0	0.0	8	3.4	24	10.1
9 to <18 years	0	0.0	8	1.4	9	1.6	0	0.0	8	1.4	25	4.4
18 to <65 years	0	0.0	18	0.7	35	1.3	0	0.0	11	0.4	64	2.3
65 to <75 years	0	0.0	1	0.5	0	0.0	0	0.0	2	0.9	3	1.4
75+ years	0	0.0	4	2.6	0	0.0	0	0.0	0	0.0	4	2.6
<b>Total</b>	<b>0</b>	<b>0.0</b>	<b>60</b>	<b>1.4</b>	<b>67</b>	<b>1.6</b>	<b>1</b>	<b>&lt;0.1</b>	<b>47</b>	<b>1.1</b>	<b>175</b>	<b>4.1</b>

Source for Tables 6A & 6B: Outbreak Response Toolkit (includes cases with positive respiratory specimens received on or before *Mar 19, 2011*).

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009.

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

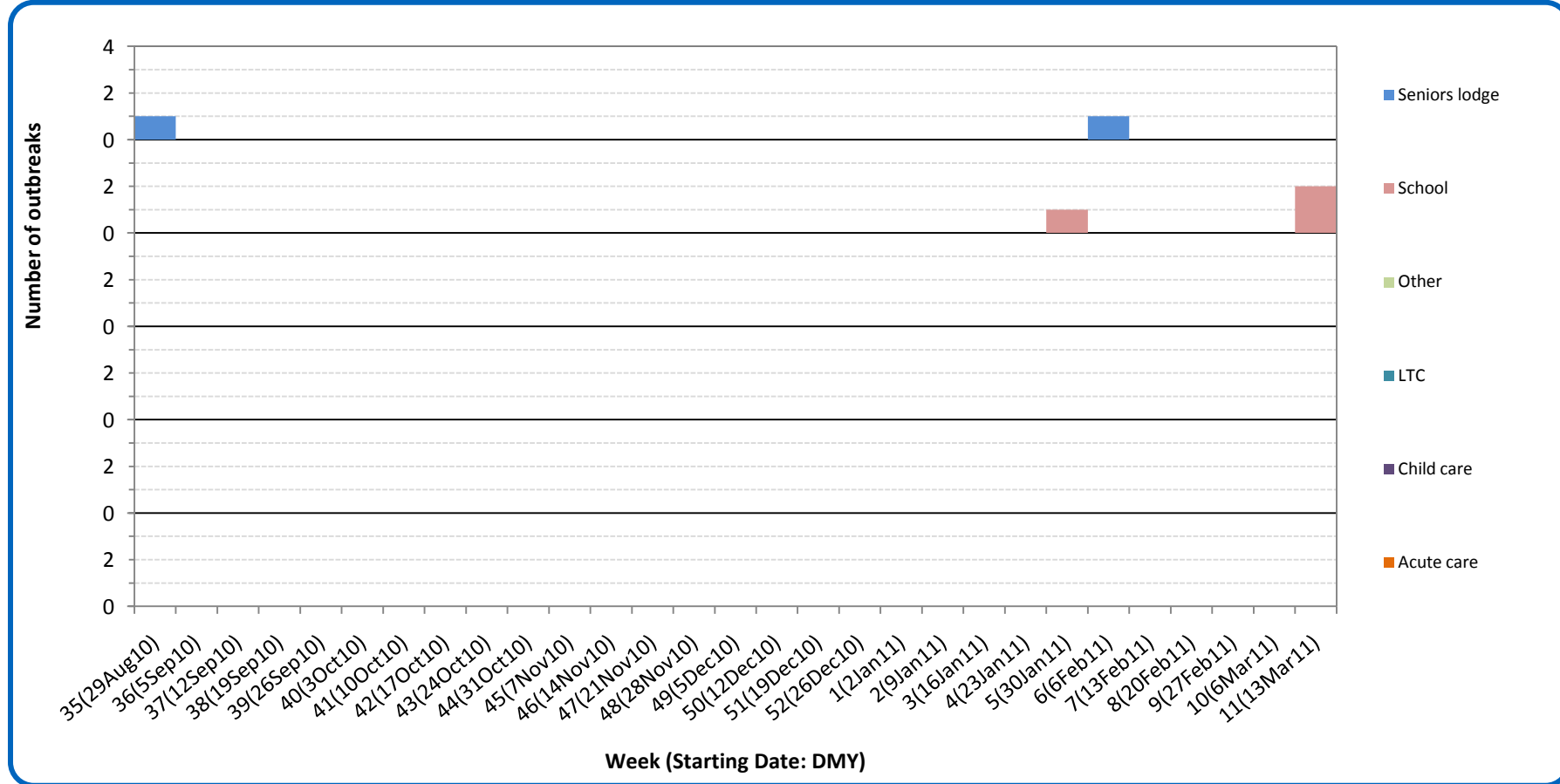
### Public Health Surveillance

Report Date: March 22, 2011

An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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Figure 6D: Respiratory outbreaks, by facility type, by onset week, North Zone (2010-2011; school outbreaks may not have a laboratory confirmation)



Source: Alberta Outbreak Reporting Form as of 23:59 on Mar 19, 2011. LTC stands for long term care facility. For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

SURVEILLANCE AND HEALTH STATUS ASSESSMENT

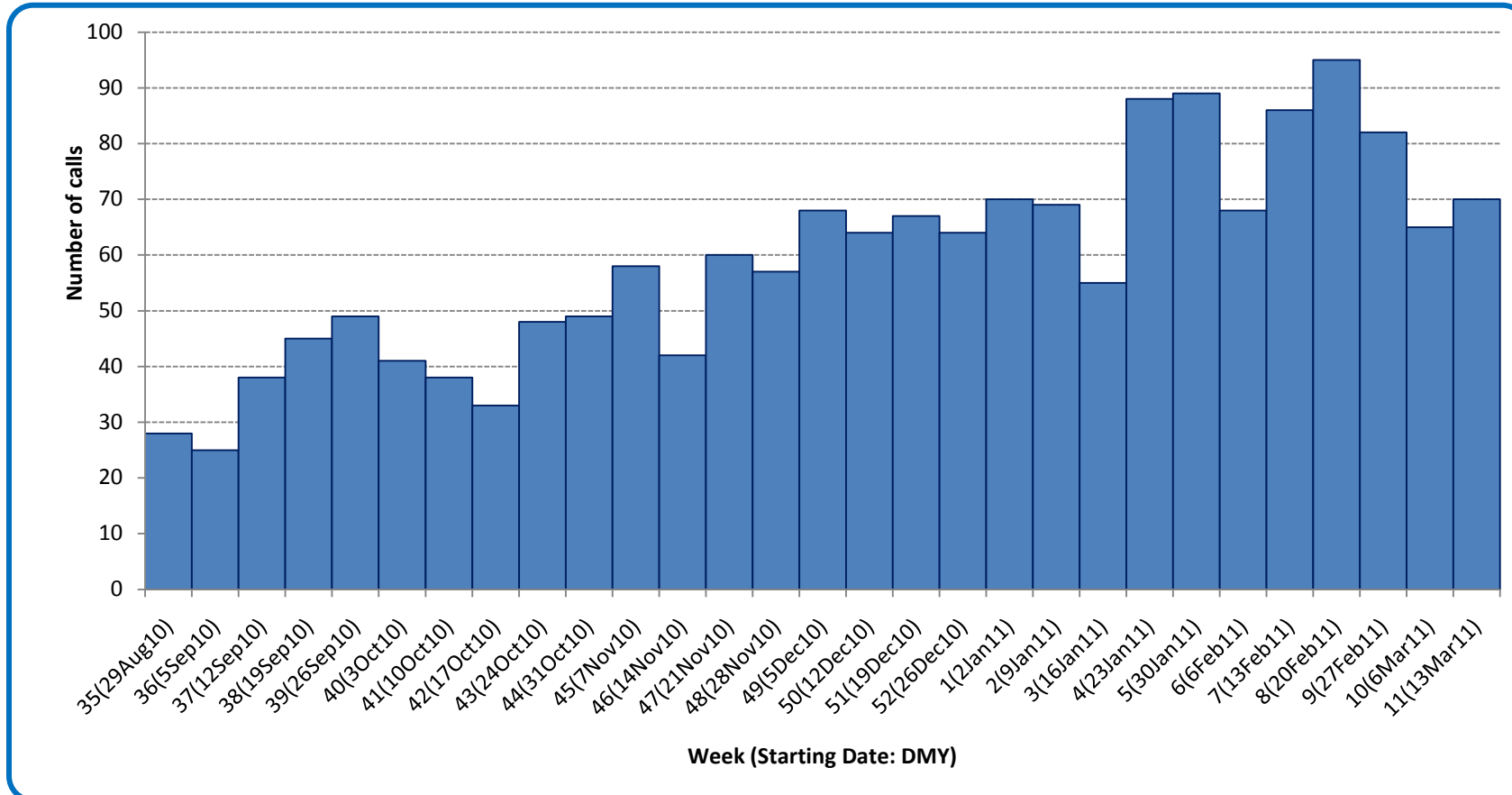
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Figure 6E: Number of calls to Health Link Alberta for cough or breathing difficulties, by week, North Zone (2010-11)



Source: Sharp Focus - Health Link Alberta - via Alberta Real Time Syndromic Surveillance Net (ARTSSN) as of 23:59 on Mar 19, 2011.  
For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

**SURVEILLANCE AND HEALTH STATUS ASSESSMENT**

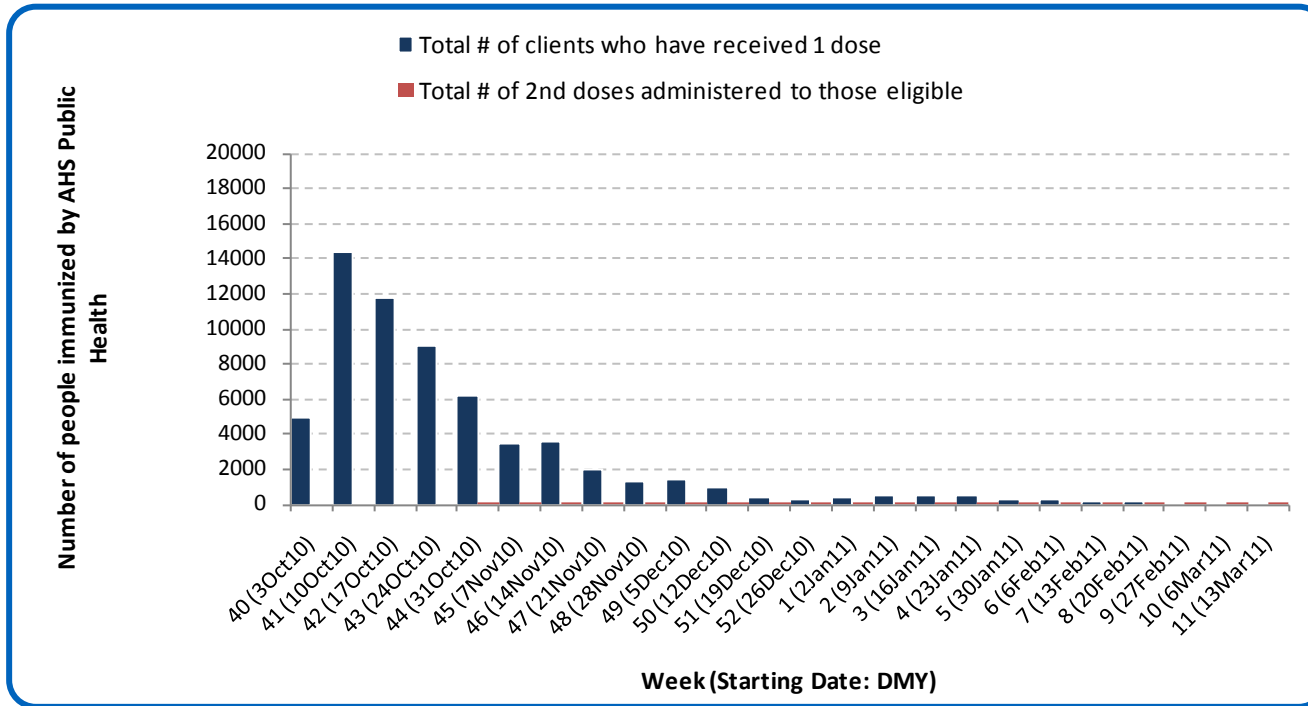
**Public Health Surveillance**

Report Date: March 22, 2011

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Figure 6F: Number immunized by AHS (Public Health), by week, North Zone (2010-2011)



Source: AHS Zones (doses do not include those delivered by external providers)  
 Note: Immunization coverage rates will be reported at the end of the influenza season  
 For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

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**Table 6C: AHS (Public Health) delivered influenza immunizations (with cumulative totals), by priority group, North Zone (2010-2011)**

Priority Group	# Immunized (Week 11 – Mar13-19, 2011)	Cumulative Number Immunized (since Oct 3, 2010)
Long term care staff	1	815
Health care workers	10	4,700
Pregnant women	1	570
Residents of long term care	0	1,248
65 years of age and over	0	15,796
All children 6 months up to and including 23 months*	Dose #1	17
	Dose #2	28
All children 24 months up to and including 59 months*	Dose #1	6
	Dose #2	3
High risk: 5 years up to and including 8 years*	Dose #1	4
	Dose #2	0
High risk: 9 years up to and including 64 years	13	7,841
Healthy: 5 years up to and including 8 years*	Dose #1	4
	Dose #2	5
Healthy: 9 years up to and including 64 years	29	23,501
<b>Total number of clients who have received 1 dose</b>	<b>85</b>	<b>62,847</b>
<b>Total number of 2nd doses administered to those eligible*</b>	<b>36</b>	<b>1,096</b>

Source: AHS Zones (doses do not include those delivered by external providers)

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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An influenza report targeted to the general public is available at: <http://www.health.alberta.ca/health-info/influenza-evidence.html>

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**Table 6D: Influenza immunizations delivered by external partners, by priority group, North Zone (Oct 3-Dec 31, 2010)**

Priority Group	# Immunized Oct 3-Dec 31, 2010	
Long term care staff	9	
Health care workers	153	
Pregnant women	4	
Residents of long term care	0	
65 years of age and over	333	
All children 6 months up to and including 23 months*	Dose #1	0
	Dose #2**	0
All children 24 months up to and including 59 months*	Dose #1	1
	Dose #2**	0
High risk: 5 years up to and including 8 years*	Dose #1	0
	Dose #2**	0
High risk: 9 years up to and including 64 years	633	
Healthy: 5 years up to and including 8 years*	Dose #1	2
	Dose #2**	0
Healthy: 9 years up to and including 64 years	3,940	
<b>Total number of clients who have received 1 dose</b>	<b>5,075</b>	
Total number of 2nd doses administered to those eligible*	0	

Source: AHS Zones (zones are required to report doses of seasonal influenza vaccine administered by community and other providers (e.g. physicians, pharmacists, LTC, WHS/OHS programs) twice during the influenza season. These numbers are from the first report (for doses delivered from Oct 3 to Dec 31, 2010). The remaining doses will be reported at a later date.

\*Children under 9 years of age who have not received at least one dose of seasonal influenza vaccine in past years require two doses, given at least four weeks apart.

\*\*In some cases, it was not possible to separate dose 1's from dose 2's. Therefore, dose 1 category may contain some 2<sup>nd</sup> doses.

Note: Immunization coverage rates will be reported at the end of the influenza season

For more information on data definitions and sources see [Annex: Data Notes section at the end of this report](#)

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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## ANNEX: DATA NOTES

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### LABORATORY

Information on laboratory confirmed respiratory virus activity in Alberta is based on data from 2 sources:

- 1) Non-influenza viruses: The Alberta Provincial Public Health Laboratory DIAL system (Data Integration for Alberta Laboratories) – a specimen based system. Cases are determined by rationalizing samples from the same patient with the same virus identified within a 30-day period. The information (i.e. received date) from the first sample identifying the identical virus is used in this report.
- 2) Influenza viruses: The Alberta influenza Case Management System – an influenza case based system.

Both data sources are web-based applications supported by the Canadian Network for Public Health Intelligence.

The data in this report are based on specimens obtained from residents of Alberta; according to the date the specimen was received by the laboratory.

Definition for “mixed” – a single sample where multiple viral organisms were isolated.

### INFLUENZA-LIKE ILLNESS

Four data sources are used to provide information on utilization of primary and acute care services by people with Influenza-Like Illness (ILI). *Caution: Each source uses potentially different definitions of ILI.*

1. Primary care summaries are obtained from the TARRANT system. Patients seen by TARRANT physicians may not be representative of the general population. Reported ILI cases represent people seen by TARRANT physicians, according to the date seen by the physician. The percentage of ILI represents the proportion of patients with ILI of all patients seen by the physician.
2. In addition to reporting visits of patients with ILI, TARRANT physicians also report visits with lower respiratory tract infections (LRTI). Each visit is recorded only once, even if a patient has symptoms consistent with ILI and LRTI. The combined ILI- and LRTI-related visits are therefore suggestive of overall respiratory infections in the patient population.
3. Information on visits for ILI in Emergency Departments (ED) and urgent care centers are provided by the Alberta Real Time Syndromic Surveillance Net (ARTSSN) data repository. ILI designation is based on patients being screened in emergency departments with an ILI screening tool. The primary purpose of the ILI screening tool is to implement appropriate infection control measures. The original data sources fed to the ARTSSN data repository are EDIS (Emergency Department Information System) for the Edmonton Zone and REDIS for the Calgary Zone.
4. Health Link Alberta is a 24 hour a day, 7 day a week nurse telephone advice and health information service that provides the public with advice and information about health symptoms and concerns. The original data source for the daily calls to Health Link Alberta for ILI, cough, and breathing difficulties is the Health Link database called Sharp Focus.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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## OUTBREAKS

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Upon notification of an outbreak, the *Alberta Health & Wellness/Alberta Health Services* Outbreak Reporting Form (Fillable PDF) is completed by Zone Public Health investigators and sent to *Alberta Health & Wellness and AHS Public Health Surveillance*. The form includes information about the type and location of the outbreak, type of facility, and the causative organism (confirmed or suspected). There may be a delay between the reporting of an outbreak and the identification of the organism. This report includes only those outbreaks that are laboratory confirmed and caused by influenza-like illness viruses; outbreaks that are caused by bacteria (i.e. pertussis, invasive pneumococcal disease) and other types of viruses (i.e. measles, rubella (German measles), chickenpox) are excluded. Also excluded are those outbreaks that have no causative agent identified by the Provincial Laboratory for Public Health or where specimens are not tested or an outbreak with only one infected (confirmed or probable) case during a 7 day period. This follows the same approach of PHAC FluWatch for defining ILI/influenza outbreak. The naming convention of outbreak facilities by FluWatch - "Hospital and residential institutions" - is also adopted. Outbreaks in schools are officially counted in tables or graphs whether there is or not a laboratory confirmation; outbreaks in hospital and residential institutions that are pending for laboratory confirmation are described for information only but not officially presented in graphs or tables in this report.

## INFLUENZA IMMUNIZATIONS

Influenza immunization data are reported by AHS zones. Numbers are available to the Public Health Surveillance team at the beginning of the week for the doses administered the previous week (Sunday to Saturday). It includes those doses administered by AHS (Public Health) only. Clients can only exist in one priority group. Immunization coverage rates will be reported at the end of March, 2011.

## POPULATION NUMBERS

Population data values used to calculate rates are for June 30, 2009 and are estimated using actual population values from the Alberta Health Care Insurance Plan (AHCIP) Registration File as of March 31, 2009. The following registrants are included: residents of Alberta; 'residents' of Alberta temporarily living elsewhere, such as extended visits or vacations or students attending an educational institute outside of Alberta, or Albertans temporarily (up to four years) working outside Alberta; persons during the first three months after they move from Alberta to another Canadian province; dependants of members of the RCMP and Armed Forces; persons from another country who are working or studying in Alberta on valid visas; and Natives/Aboriginals whose premiums are paid by Health Canada, First Nations and Inuit Health Branch. Not included are: members of the Armed Forces and RCMP; inmates at federal penitentiaries; persons from other provinces during their first three months in Alberta; and persons who have not registered for eligibility, or have opted out.

Slight differences between values provided at this level of aggregation and data provided at other levels of aggregation may occur because of round-off error. Population values are subject to change without notice when new source data is received.

## SURVEILLANCE AND HEALTH STATUS ASSESSMENT

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